

59238

C.



Class 10a No 148

u1

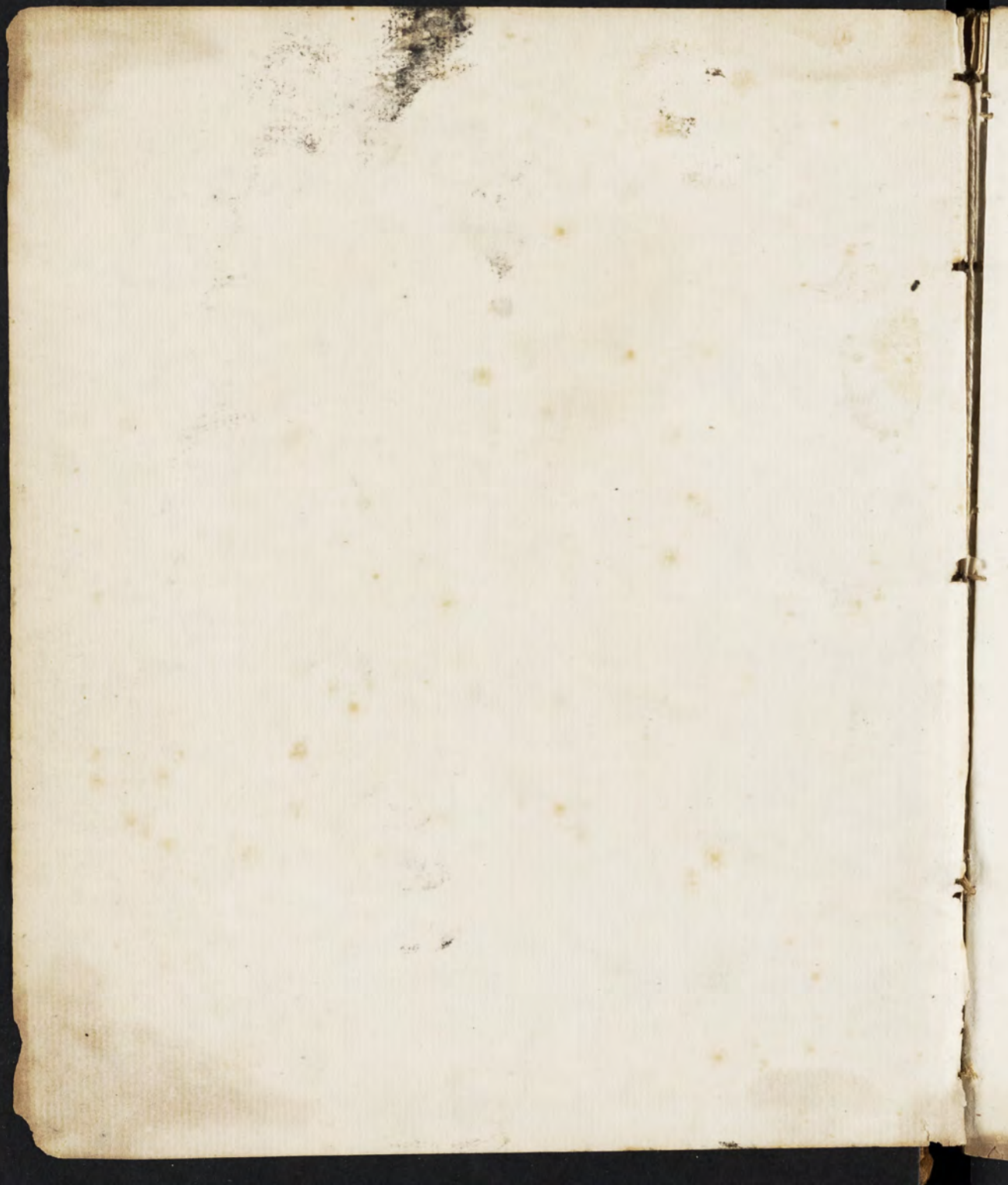
Presented by

Leonardo S. Clark M.D.

1.0

1. 3. 4. 5.
2. 6. 7. 8.
3. 9. 10. 11.
4. 12. 13. 14.
5. 15. 16. 17.
6. 18. 19. 20.
7. 21. 22. 23.
8. 24. 25. 26.
9. 27. 28. 29.
10. 30. 31. 32.

11. 33. 34. 35.
12. 36. 37. 38.
13. 39. 40. 41.
14. 42. 43. 44.
15. 45. 46. 47.
16. 48. 49. 50.
17. 51. 52. 53.
18. 54. 55. 56.
19. 57. 58. 59.
20. 60. 61. 62.



Notes on the lectures
of Dr. Benjamin Rush.

vol. 1

COLLEGE OF THE CITY OF
PHILADELPHIA

APR 18 1901

Thus when a Table with different colours painted
on it is Exhibited round but one is excited in
the mind - Two thoughts excited in the mind
at once - one is produced different from either
2 Medicines exhibited of the same force at the
same time produce an impression a com-
pound of both

102
148

Laws of Sensation.

Impressions are void of sensation at times, many viscera when diseased are void of impressions. The parts to which stimuli are applied do not produce a sensation in that part, as a stone in the Kidney will produce sickness at the Stomach.

1st All sensations are proportioned in a certain degree to the force of impressions

2nd The force of the impression excited produces a sensation proportioned to the duration. —

3rd Only one sensation can be excited at once when ^{sensations} ~~impressions~~ are unequal the most powerful reigns

4th A number of impressions of equal force being given the sensation produced is a compound of them all, just as a number of tones produce ^{produced in the} ~~excited~~ harmony. — Top[#] — 2 thoughts at once, ^{exhibited of the} ~~excited~~ different from either. 2 med. ^{duce} same force produce an impression a compound of both, & we are disappointed in its effects

5th Certain sensations continue some minutes or half an hour after the impression which excited them has been removed. —

6th Sensation is destroyed by the impression. — # a Top with different colours painted on it twirled round, but one is excited

- ① This accounts for the want of pain w^h is sometimes Experienced immediate after the Amputation of a limb —
- ② As a Person who could hear the sound of a Pin put thro' a paper when he could not hear the noise of Cannon
- * as Reigning Epidemic being driven away by the Influenza, or Small Pox
- * as a Man curing himself of great pain by shaving

sion being disproportioned in force to the sensibility of the part to w^{ch} it is applied - Pain & Operation of 3j of Arsenic not quite destroyed the sensibility of the part. Sours - Cannon & pier thro' a paper. So a dose of medicine at first must be regulated.

7th Feeble sensations often drive away a painful one more powerful - reigning Epidemicth Fear & Pain. The system tho' must be worn down some time.

8th Sensations are renewable by repetition & they are much influenced by habit.

Effects of Habit on Sensation -

1st Certain painful sensations become less so by repetition.
2^d Certain originally painful become pleasant by repetition.
3^d Certain originally ^{pleasant} ~~pleasant~~ become less so by repetition - as the Cold Bath.

4th Certain sensations originally pleasant become painful by repetition - as Drooping water from the Ceiling on the head.

5th Certain sensations are destroyed giving neither pain or pleasure, from impressions w^{ch} produced both - The Pleasures of Youth are destroyed in old age by repetition. The Miasmata in the W^{est} Indies will produce Malignant fevers in new comers & have no effect on the inhabitants.

Sensibility is in proportion to the quantity of
mind possessed - Irritability the reverse. While
the Hair nails & Bones alone are renewed by
Man - the Horse, Laenia & Other Animals pos-
sess this reiterating power to a great extent.

6th Certain sensations are influenced by different ages in the power of exciting pleasure or pain.

7th Sensations arising by comparison become more prompt & acute by repetition. as Linen Drapers

8th Ideas are not only renewable by repetition but there is a certain order established in them ever after as repeating verses.

9th Two or more sensations often excited together are ever after connected in the mind. — This is what we call a association of Ideas

Muscles & Tendons

The Muscular power or substance extends to every part of the body, hence the predisposition to take on convulsions & spasm. The Stomach, Bowels, Lungs, Trachea, Heart & Brain are all liable to spasmodic diseases. The contraction of muscles, is greater than that of any other elastic matter. Hollow muscles are most irritable as the Heart. Different parts are acted on by different stimuli. The Brain is a reservoir of the muscular power, but muscles move independently of the Brain. That is it depends on the organization of the muscle. A Tree will have ^{its}

x Sensibility yields to inevitability in old age

its existence in winter but if brought into a warm atmosphere will put out leaves. The less the sensibility of the Muscles the more their irritability. Sensibility ends with life, irritability continues after death. The last predominates in infancy & childhood. In equal proportions in middle life - Once a man - twice a child. There is an Integrity in the Nervous Venous & Arterial Systems, all being necessary to Muscles

Influence of Habit upon Muscles

1st Action becomes correct by habit; as in Children catching hold &c

2^d The Tone of the Muscles is influenced by repetition - Repetition changes active into passive sympathy - Repetition fixes a return of certain motions

3^d Facility & Celerity of action are influenced by repetition - Irritability is increased at the expense of sensibility in this case. -

4th Repetition lessens the frequency & celerity of motions as medicine in the Stomach

5th Repetition increases the strength of the muscles - They acquire a dark colour after exercise. -

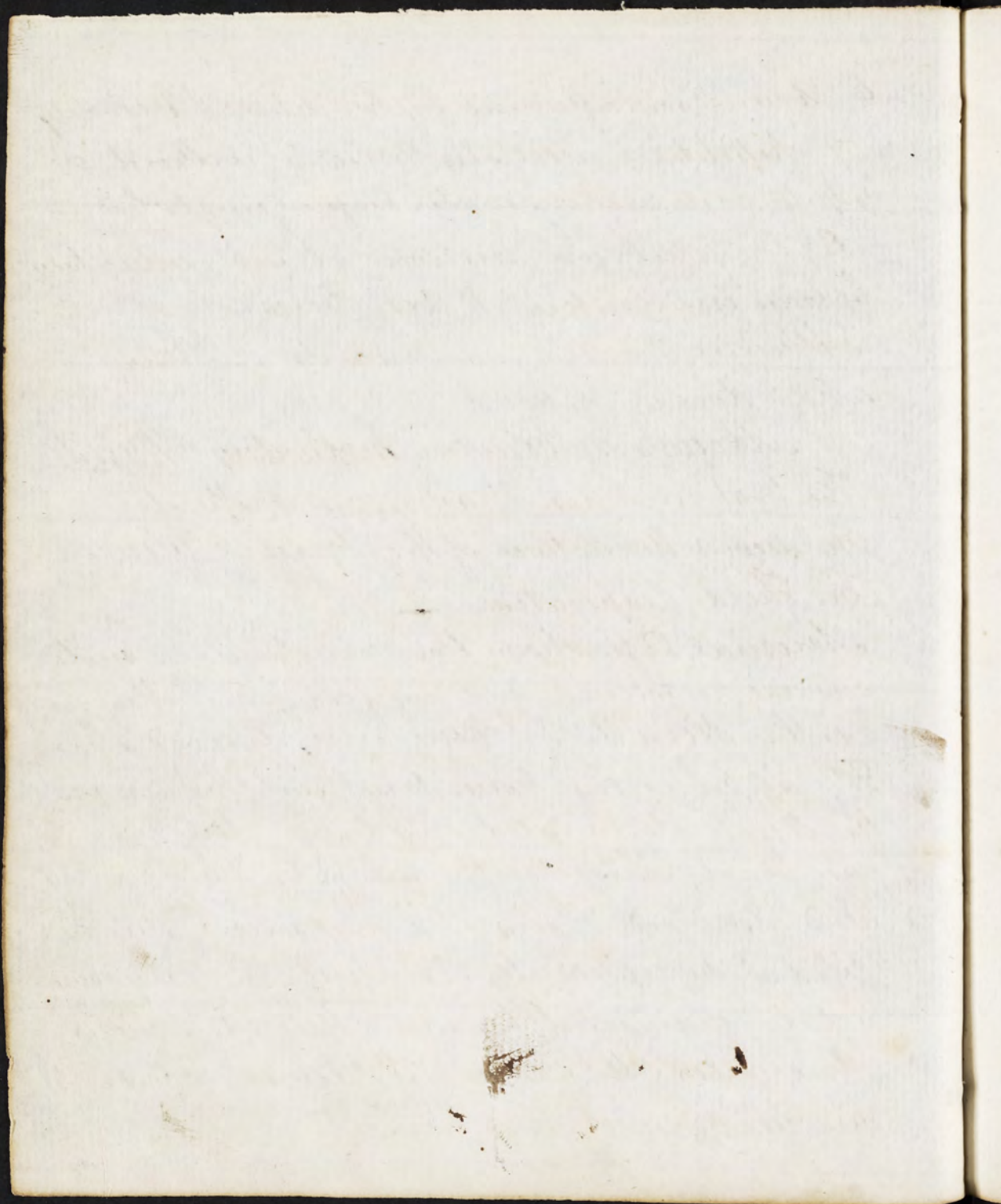
6th Actions are influenced by Repetition & Velocity
7th Repetition associates Motions without necessity, as in making water before going to bed. —

8th By Repetition motions at first voluntary become involuntary, & vice versa

Muscles are the instruments of Motion, & what does it depend —

Motions are Voluntary, Involuntary & Mixed.
The first includes Mastication, & Speech
The second the action of the Heart & Viscera
The Third Respiration —

Animal life shews how involuntary motions are performed viz. by force, or in other words, by Stimuli. I came here, observed the G^d, apparently voluntary, but the air in the street stimulated my lungs — they lured my heart; this sent a quantity of blood to my head, the blood stimulated my mind, this excited a susceptibility of impression, my sense of duty stimulated the will, this the Murder they under this chain of Stimuli conducted me here —



No actions of the body are originally voluntary they all become so by habit. Air is the *Primum Mobile*, or main spring of life. It is to life what it is to a ship under sail, or a windmill at work. Motions or actions at first voluntary afterwards become involuntary. This is exemplified in adults & particularly in old people. It has been wisely ordered that the action of the Heart & Lymphatics, are not voluntary, or in other words not at our disposal. Suicide would I suppose be generally accomplished in this way. They put the will at defiance. We have been looking within instead of without for the production of Muscular Motion. I came, says the Professor to this chair to day by force. Voluntary motions are explained in the same manner. The will has no power in producing motions without external stimuli. The Brain & Mind excite a susceptibility of Impression, & the will moves the muscles of the limbs. The manner by which impressions on a part of the body produce sensation is what is called Sympathy.

Sympathy is of 2 Kinds
1. Sympathy of Continuity.

* An instance of Continuous Sympathy we have between the Rectum & Stomach e.g. A stool immediately after taking food or drink into the Stomach

* An instance of contiguous Sympathy we have with the Stomach & External surface; & the rectum with the Bladder - Thus a draught of cold water taken into the Stomach will increase perspiration & under certain states of it a contraction of the skin - Frequent discharge of Urine from Feverishness, or from inflammation & of the rectum -

o As for example Hydrocephalus Internus from worms in the Stomach, & sickness at Stomach from affections of the brain

o This Pleurisy from suppressed Perspiration -

Delusive Sympathy when pain is felt remote from the part in which the impression is made, as pain in the Shoulder in diseases of the Liver, Itching in the Glans Penis from Stone in the Bladder.

Mixed Sympathies - The Lungs with the feet & Genitals - Stomach with the Liver - The feet with the head & Stomach &c

Continuous

2^o Sympathy of Contiguity -

By the first we understand ^{an} intercommunion of sensation kept up by a similar substance, or parts connected together. * Its preeminent in the Nerves

By the 2^o we mean that species of Sympathy it is produced by no connection or communication, & in parts of dissimilar structure & matter. It is carried on by means of Nerves. # as sickness at the Stomach for another's Vomiting -

^{Continuous} Sympathy has likewise been divided into Reciprocal Sympathy

Non Reciprocal Sympathy &

Inverse ^{Reciprocal} Sympathy. -

The first is exemplified by the Sympathy between the Stomach & Brain or Head. ©

The 2^o by the Sympathy between the Stomach & Kidneys - The Kidneys can affect the Stomach but the Stomach cannot affect the Kidneys

The third by the Sympathy between the Lungs & Capillary Vessels - Effects are different in an inverse ratio. ©

Sensation in a part remote from that, in which the impression was made is called Error Sensus
or Motion in a part remote from that in which the impression was made Error Motus
Motion

Continuous Sympathy depends on an inter-
communication of ~~Sensation~~ nervous or sensorial
power &

Contiguous, on an intercommunication of Sen-
sation & Motion —————

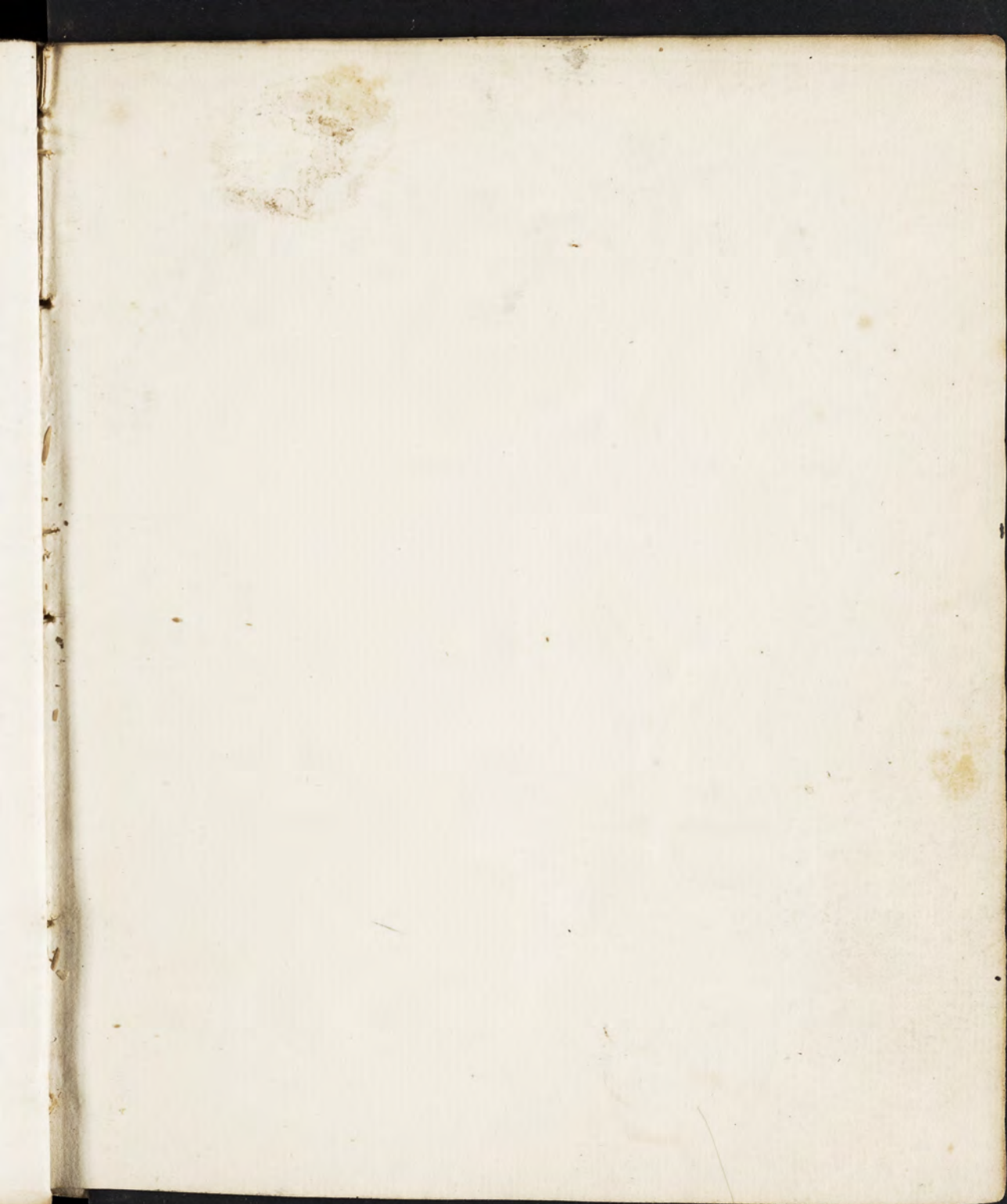
Motion passes more rapidly in the Nervous system; next in the Skin. Then the Bloodvessels Lymphatics &c. The Bloodvessels sympathize with each other from the Nerves but not from the Brain. The Brain sympathizes with all the Senses; with the Stomach producing sickness with the Liver & Spleen, vomiting bile, & obstructions in Madness, with the feet, all the Muscles, producing Headache after labour; & with all the passions of the Mind. — The Stomach sympathizes with the Head, with the Senses, Liver, Heart, Thedies, Eye producing ophthalmia. Intestines Stomach, Bowels & Lungs. — The Diaphragm sympathizes with the Brain &c. There are some Sympathies peculiar to some constitutions, some are formed by accident. — Many sympathies exist in Health which are lost in disease. — Sympathies differ in different ages & sexes. — They differ in different years in the same disease. — They differ in different seasons of the ~~same~~ year.

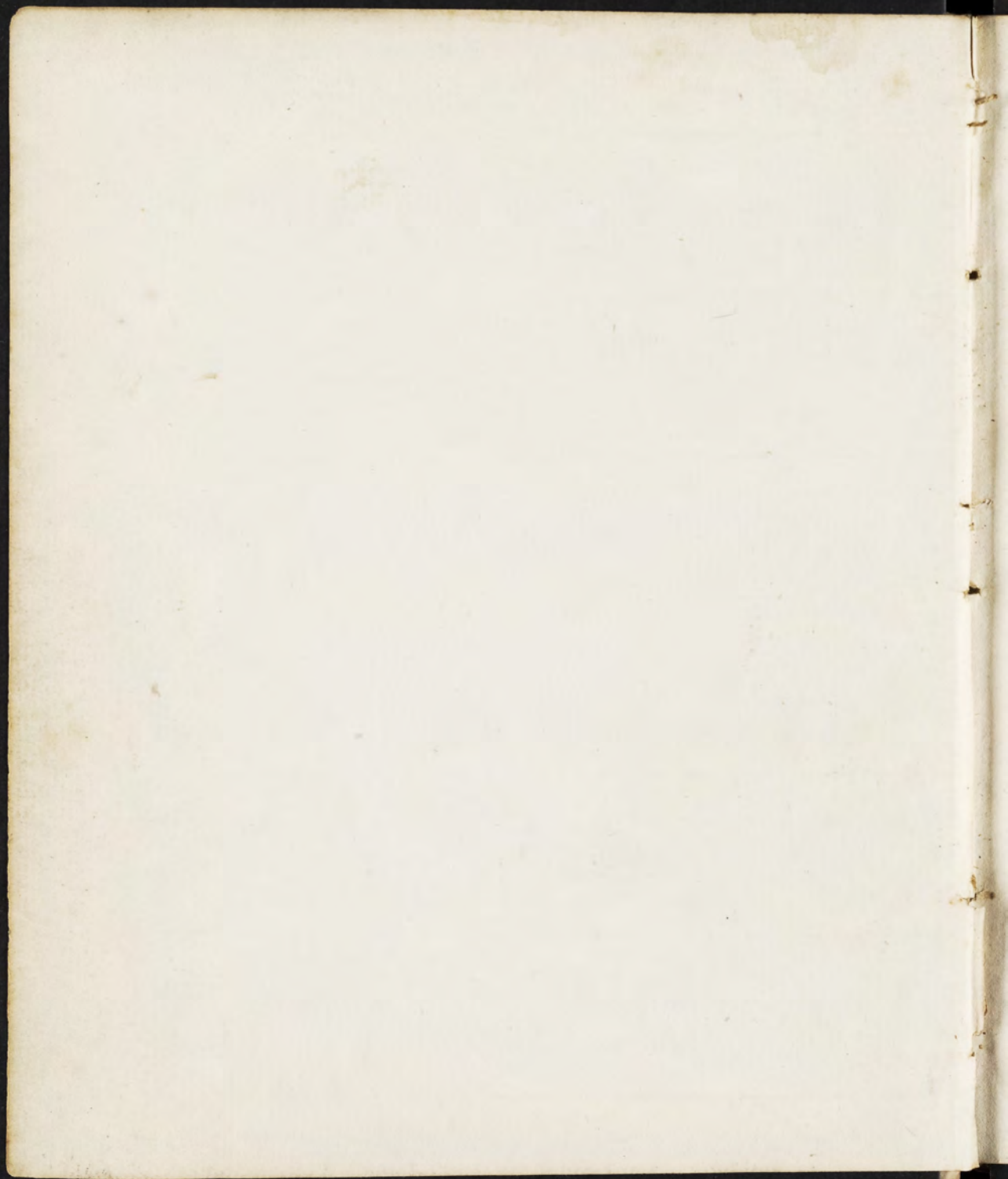
Many sympathies which exist in Health are suspended by disease. — Sympathies differ from different predispositions in different people. — We come next to speak of those parts

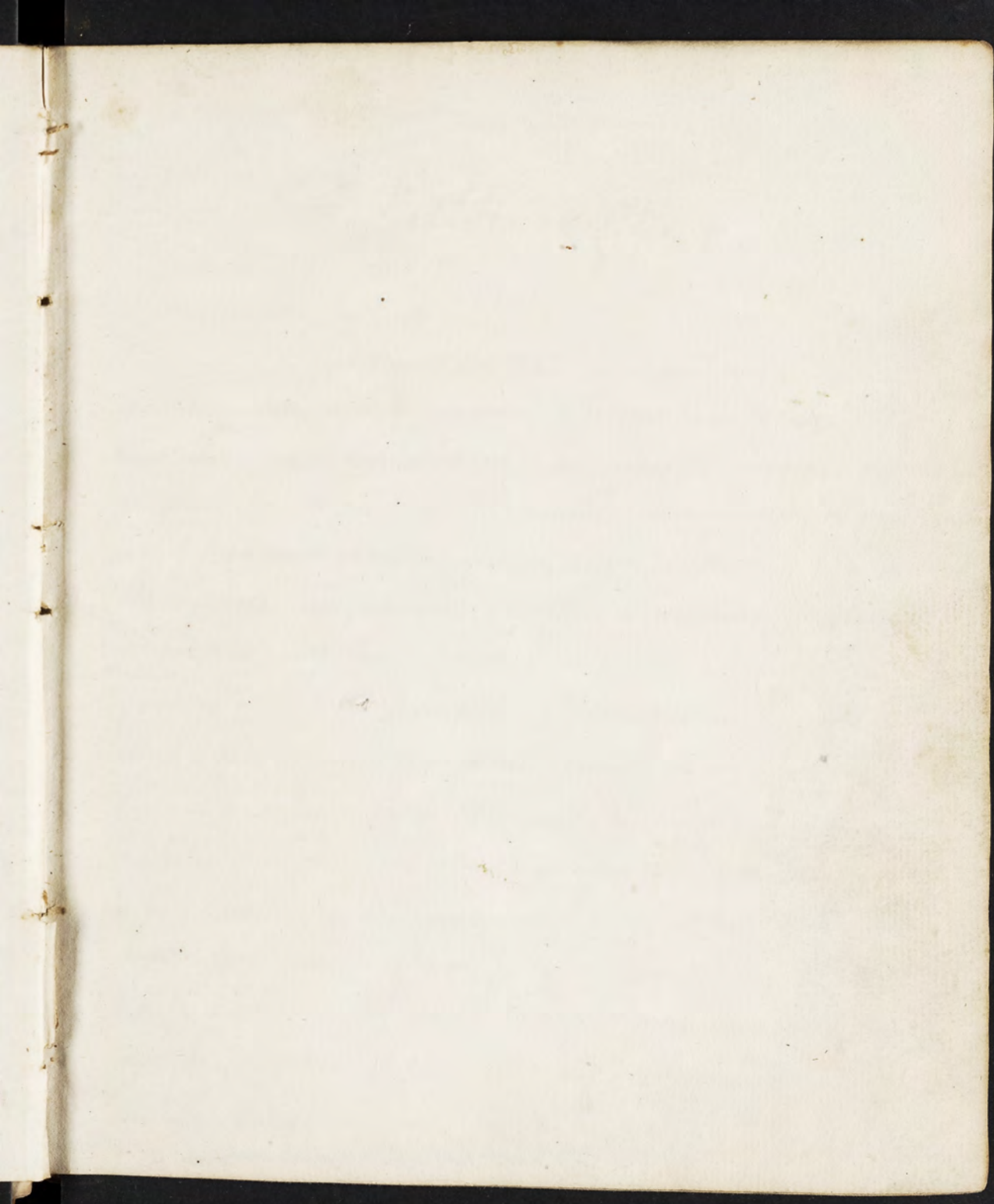
where impressions made produce sensation
The Brain is a Citadel, the Nerves the Ave-
nues, they the Senses. Impressions on the Ton-
gue & Nose are Chymical the rest are Me-
chanical. Air has no effect on the Cuticle
Sympathy between the Skin & Stomach arises
from the Continuity of the Skin. When the Li-
quid Moisture on the Tongue is Condensed, it
is said to be furred. Depletion increases
the sense of taste. When Sugar tastes Bitter,
it is from the Bitter Nerve being Stimulated
& conveying a Bitter taste. This is an Error
Sensus.

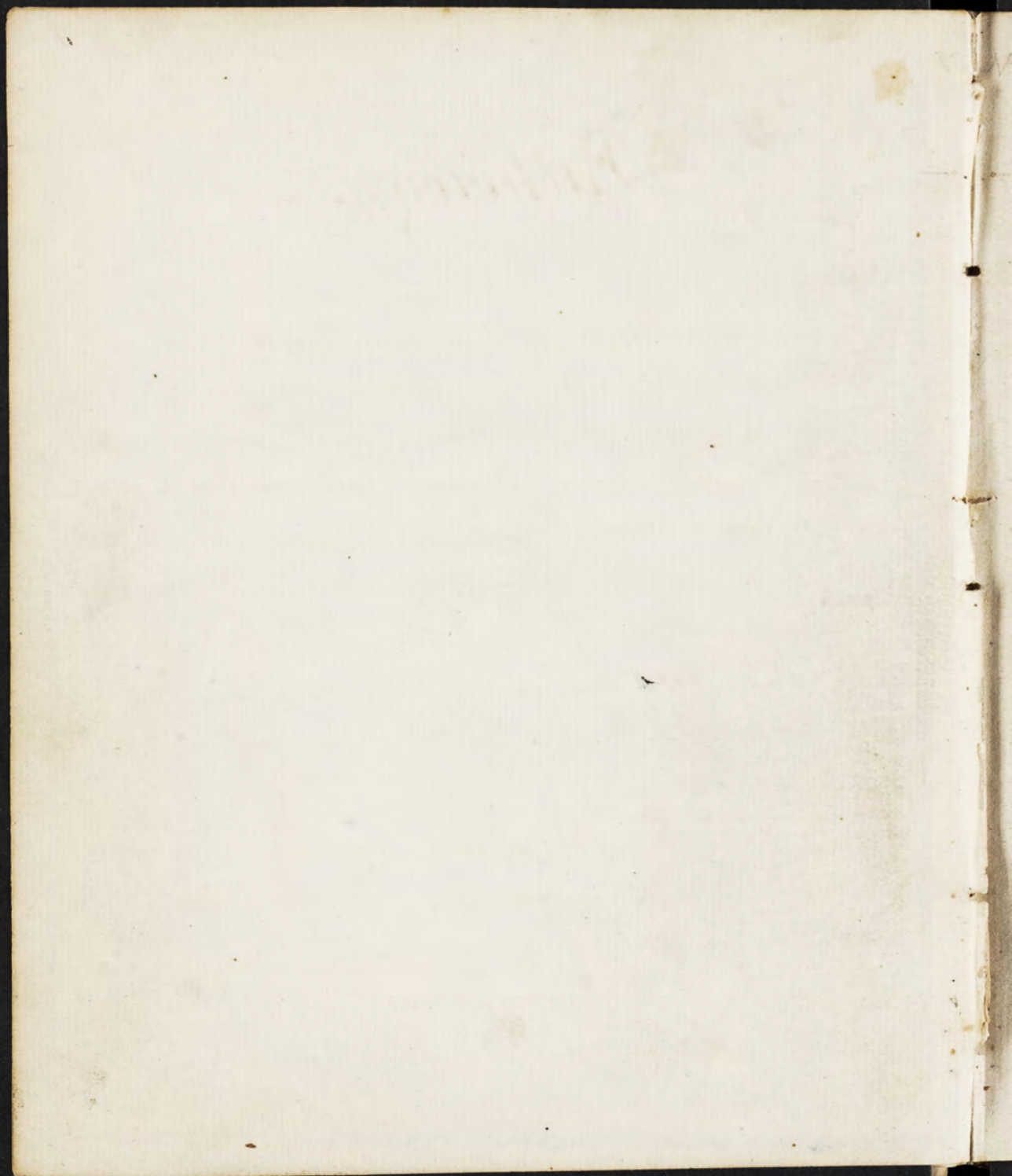
There are Nerves conveying a Bitter & a sweet taste
Dreams excite specific motions on the tongue
& we enjoy aliments in Sleep. The taste depends
in some measure on the Smell, as it is not so
acute when a Cataract has deadened our
Olfactory Organs.

after many years of study and reflection
the time is now come for the publication of this
work. It is a result of the author's long and
careful study of the subject, and is intended
to be a complete and accurate statement of the
principles of the science, and of the methods
of its application. It is written in a plain and
simple style, and is intended to be accessible
to all who are interested in the subject.
The author has endeavored to make it as
clear and concise as possible, and to give
a full and complete statement of the
principles of the science, and of the methods
of its application. It is written in a plain and
simple style, and is intended to be accessible
to all who are interested in the subject.









Pathology. —

Gentlemen

Hitherto we have considered the living body in a healthy state; such as divines considered man before his Fall: But now we will consider him in an imperfect or diseased state. — Sickness & death, as moral evil, are the consequences of the forfeiture of primordial innocence, which, as soon as lost, was followed by these effects. Every element in nature took a part with the Creator & conspired with him against man. Their action however was feeble at first & slow, as we find by the age of some who almost reached a 1000 years; & it was not till after the deluge that the life of man was ^{con-}tracted to the present age; the influence of which together with the Atmosphere conspired to produce. That Life is a forced state is no less enervating to religion than to true Philosophy. Life consists in a strife or a temporary victory over causes which tend to induce death. Let us not suppose that the Creator delights in the misery of his Creatures; so far from this being the case that all diseases are blessings in disguise. They are neces-

* Pain itself, unconnected with disease has several important uses - Is the harbinger of disease & often points out its seat. Those Diseases & Disorders which creep or steal slowly on the system without pain are most to be dreaded, such as Cancer Pulmonary Consumption chronic inflammation of the liver & chronic Obstructions of all kinds -

sary to our general good Happiness, they are of important uses; they naturally lead us to the study of subjects highly important to the human race. Disease first rendered it necessary for man to undertake the study of Anatomy - 2^o This leads us to a knowledge of Physiology. 3^o It leads us to the study of Nature & the animal, vegetable & fossil Kingdoms, without which the works of Nature would remain unexplored & unadmired. 4^o It leads us to the study of the human mind; affords & furnishes exercise for our moral faculties; for without diseases there would be no Benevolence or charity, also there would be no Hospitals to relieve the indigent. 5^h

6^h As darkness gives charms to light, in like manner is disease necessary to impart a relish for health. 7^h It serves to increase our moral virtue; for many owe their virtue to a spell of sickness & 8^h It reconciles us to death & induces us to console ourselves under afflictions for the loss of our friends. & On entering upon Pathology I ^{am entering a wilderness} ~~am~~ without ^{compass or} a guide. Boerhaave's notions & observations are short & not suited to the present improved state of medicine. Gaultier attempts to bring it into a system; but it is so full of the humoral doctrine, that it is of little service to students of the present day. — *

Pathology treats of the causes, seats & signs of diseases. —

~~* Predispos.~~ ^{2^d} ^{Infancy} It is acquired in, ~~young~~, in adult life & in old age in a great variety of ways all w^{ch} shall be taken particular notice of hereafter. It is acquired in infancy & childhood, by injuries at the time of Birth, By the custom of washing the tender skin of infants with Acidul^l Sul^l. By aliments of unwholesome quality or excessive in quantity by the passions of Nurses & Mothers, by improper methods of dressing - By Opium and ~~Spir~~ & being given to children than w^{ch} nothing is more injurious, by premature application of the mind to study particularly such studies as are disproportioned to the faculties of a child, as Grammar, Dead Languages or By confinement to close schoolrooms without exercise enveloped by

~~Predispositions or Debilities~~ 1st ~~Arterial subdivided pulmo-~~
~~nic, Aorta, & Uterine~~ 2^d ~~Hepatic~~ ~~Alimentary subdivided~~
~~Gastric & Enteric~~

* ~~6th Cephalic & Sympathic~~

~~3rd Cutaneous~~

Arctic air for 6 or 7 hours every day, to w^{ch} may be added the Despotism of Schoolmasters - By falls & other accidents, By children being lifted up by the neck hair of the head & by their being violently shaken by angry Nurses or Mothers &c. Debility whether natural or acquired when it occupies any particular part of the body has been called a Temperament. The Temperaments as divided by the Ancients are four viz Sanguineous Bilious Phlegmatic & Melancholic. But I object to the

The different causes of diseases may be divided into four. 1st Remote, 2nd Predisposing 3rd Occasional or exciting & 4th Proximate (or morbus ipse.) They are all links of one chain: For instance in an inflammatory fever 1st Cold is the remote cause 2nd The debility produced by the cold ^{of a stove room or the vernal sun} is the predisposing cause 3rd Heat the occasional or exciting cause & 4th The Convulsive or morbid action of the arterial system, the proximate cause. By the proximate cause I mean the morbus ipse of Gaubius, or the disease itself.

1st General Proposition
Debility is the predisposing cause of all diseases, whether it be natural or acquired; ^{By} natural debility I mean a predispo-

sition to disease brought into the world with us. This debility is brought into the world with us & generally arises from the intemperance of the parents. It is followed by disease as soon as a child comes into the world as Red gums &c. always attended with more or less irritability. ✱

The Temperaments as divided by the ancients are four viz. Sanguineous, Bilious, Phlegmatic & Melancholic or Atrabilious; but I shall divide them into seven viz. 1st Sanguineous 2nd Bilious. 3rd Nervous 4th Muscular, 5th Phrenitic 6th Alimentary* 7th Phlegmatic†. The Sanguineous & Bilious are often blended together & predispose to acute diseases especially in warm climates. There is an excess of Blood or Bile in these two. The Sanguineous is divided into Pulmonary & Aortic. The Nervous into three as it affects Nerves, Muscles, or mind.

6
term Temperament is conveying no definite mean-
ing & I adopt in its stead the word Predisposition
by which I mean a preternatural aptitude to dis-
ease in any particular part of the body founded on
debility either native or acquired & attended with pre-
ternatural excitability - By excitability I understand a
Capacity of being acted upon by Stimuli - Debility is al-
most general but occupying for the most part but one
system of the body & predisposing it to disease -

Predisposition is divided into - 1 Arterial 2 Hepatic
3 Nervous 4 Muscular 5 Cephalic - aptitude to head ache &
6 Phrenetic Aptitude to delirium & 7 alimentary 8 Symptha-
tic & 9 Cutaneous - Arterial Predisposition or Tem-
perament is subdivided into Aortic Pulmonary & Uterine
& predisposes to acute diseases especially in warm climates -
there is an excess of blood & - Hepatic - Persons of hepatic
predisposition are said to have livers preternaturally large that
secrete a preternatural quantity of Bile & is most frequently
in warm climates & in autumn discovers itself by aptitude
to Diarrhoea, Cholera & Nervous Predis: discovers itself by a
susceptibility of being violently acted upon by the the slightest
corporeal or mental impressions Persons of this Predis: are
subject to Hypochondria: Hysteria happy & miserable half a do-
zen times in a day - Cephalic Pre: attended with aptitude to
head ache vertigo Aphorsy & Palsy; differs from the Phrenetic
in occupying the inferior or lowest part of the head - Phrenetic
differs from the Cephalic in occupying the superior part of the
Brain & discovers itself in early life by an uncommon aptitude
to acquire knowledge, Quick perception, is attended with great apti-
tude to become delirious from the slightest fever. Persons of this
predisposition

The Nervous temperament disposes to Hysteria Hypochondriasis, Melancholy, Madness & Epilepsy. The Muscular temperament is accompanied with little sensibility & great irritability. Persons affected with this temperament are unable to remain long in one place, walk fast, ride swiftly, & may be said to repose only in activity. They also possess little mind & often succumb under diseases because the nerves refuse to stand as centinels to the system.

The Sereno is accompanied with an unusual irritability of brain, quick perception; when nerves & bloodvessels were healthy there was no disease & vice versa. persons affected with this temperament may be said to be all mind. The Alimentary may be divided into two, the Gastric & ^{Intestinal} Intestinal. They dispose to diseases of that Canal & are connected with the Biliary. The Phlegmatic Temperament connected with the inert organs of generation; Lymphatics are languid &c.

Persons of the same age with the same exercise & on the same day may be taken with different diseases, according as the different temperaments predispose to different affections. 1st

The Temperaments are often blended together in different proportions for no one temperament belongs exclusively to one person.

2nd These temperaments succeed each other in different periods.

Predisposition may be said to be all mind - Muscular Pre: Known by little sensibility & great irritability in the Muscular fibre. Persons of this Predisposition are disposed to active employment & dislike confinement. If necessity compels them to sit in one place, their hands, feet & head are continually in motion - They walk fast & ride swiftly, & may be said to repose only in activity. They may be said to be all muscles. Alimentary Predis: divided into Gastric & Intestinal. Because the Stomach is often very excitable, with healthy bowels & vice versa. Lymphatic Predis: The Lymphatics perform their office with undue celerity & force.

The Cutaneous Pre: discovers itself in the facility with which itching, redness, Eruptions & are excited upon the skin from the slightest causes ^{also} in great difficulty of healing external wounds. & so on -

Some one of these predispositions is present in every person. There is scarcely any person but what has some weak part about him. Perfect health is as rare as Perfect virtue or Perfect reason. Predisposition is not always separate or confined to one system. They are combined in various ways. The Hepatic & Alimentary are ^{often} united - Nervous Muscular & Cephalic in persons subject to epilepsy - the nervous & cephalic are often blended - Nervous & Arterial sometimes combined in Hysterical persons - Predisposition varies in different periods of life & in different seasons of the year. Thus the alimentary prevails in early life - Arterial & Hepatic in Middle life & Nervous & Cephalic in old age ^{arterial}

of life & in different seasons. viz The ^{Arterial} ~~Sanguineous~~ in the spring
 the bilious in the summer, the Nervous in the Autumn & the
 Phlegmatic in the winter & I seldom absent in any one person.
 If born without he will soon acquire one of them or perhaps
 more. 1st They descend to Families, but are mixed changed and
 lost by intermarriages with Strangers. These temperaments
 should never be lost sight of in 2nd Some nations lose their
 temperaments by the admixtion of & intermarriages with Stran-
 gers. These temperaments should never be lost sight of in in-
 vestigating diseases, or prescribing for them; for example, more
 depletion by V.S. in the Sanguineous than in any other & more
 purging in the Bilious than in any other; Abstraction from study
 in the Phrenitic. Few men enjoy a perfect degree of health,
 all live in a predisposition to disease. Perfect health is as rare
 as perfect virtue or perfect reason.

I have said that debility is the predisposing cause of all diseases.
 for farther observation on this head see the 1st vol: of my Enquiries.
 2nd That Debility is followed by an increase of excitability. 3rd Debil-
 ity whether local or general invites to morbid action & in this
 consists disease. for the Electric rod does not more certainly
 invite or attract the Electric fluid than debility invites ^{to depression, & depression to} ~~invites~~.

* Disease consists in morbid excitement, the nature is
driven from the rules & the functions of the body are per-
formed with difficulty - suffocated & oppressed takes
place in prostration & depression.

Artificial Predominates in Spring Hepatic in Summer Nervous
in Autumn ^{Lymphatic in winter} - Predis: often descend from father to son
but are mixed, changed or lost by intermarriages with
strangers - Some Nations lose their Predispositions by the
intermixture of strangers - Weakness in one part common-
ly attended with Preternatural strength in others - The
same remote causes act very differently in Persons of
different predispositions - Persons of the same age with the
same exercise & on the same day may be taken with dif-
ferent diseases according as the different Predispositions pre-
dispose to different affections - ^{from this causes the} same medicines produce
different effects - the same Epidemic appears with dif-
ferent symptoms - This difference of Predisposition ex-
plains the reason why the Gout attacks such opposite
parts of the body the weakest part constantly attracts
disease - Lord Cornwallis used to say he could always
tell the weakest part of his camp by Gen: Lee's always
being sure to attack the weakest part - A man may tell
what is the weakest part about him by the same means for
disease will attack that part - Relief has been given to many
disorders by the cessation of Predisposition from want of exci-
tability thro the influence of time in the disorder when
excitement is below what is natural -

Healthy excitement may be placed at 50 this is

is kept up by the Stimuli which support life already enumerated. If part of these stimuli are ~~ab-~~
suddenly abstracted the excitement will come down
to 40 there being at the same time an accumula-
tion of excitability. This is the debility of abstrac-
tion. If the number or force of Stimuli be sud-
denly increased the excitement first rises to 60
& then descends to 40 carrying along with it suffo-
cating excitement. This is the debility from ac-
tion. Debility from both its causes occurs more
readily in Children & in old people, & in the mid-
dle of the night in the morning & evening. De-
bility admits of considerable range & does not
always end in disease. Elevated excitement is
the usual premonitory sign of disease. —

If the causes of Debility continue to act long
or their force or number is increased Depression
will take place. The signs of Depression are Cold-
ness heaviness weariness Depression of spirits
contraction & paleness of the skin. Debility has
considerable range, say from 40 to 60, but
there is only a Cobweb partition between De-
pression & disease. * Debility & depression do
not

~~do not always exist in a separate state~~

*. Depression forbids action & calls for repose
abstinence & The Electric rod does not more
certainly attract lightning from the clouds than
debility invites to depression & depression to dis-
ease

do not always exist in a separate state, they are often combined both existing at the same time in different parts of the body. Reception of a stimulus acting upon the accumulated excitability, seems necessary to the production of disease. A loss of Equilibrium as when first falling asleep & are sometimes sufficient to produce it. Soldiers & Sailors & escape disease while they labour constantly, Physicians seldom sicken till Patients begin to get well - A sudden accumulation of excitability is prevented after violent exercise by abstracting it gradually. When Stimuli are continued so long as to induce debility obstructions & may be produced without disease & this may be termed Disorder.

Disorders are morbid affections in different parts of the body in which there is a want or expenditure of excitability with a waste of sensibility & irritability; a want of sensibility & motion; it occurs in the forms of Stupor Torpor Inertia &c. It is very commonly occasioned by the force & number of Stimuli being so great as suddenly to destroy excitability thus preventing the production of disease. Disorders are most common in Southern Climates. Chronic obstructions of all kinds are disorders. Disorders ^{are}

* Suffocated excitement includes prostration & depression

are many, disease is an unit

2^d General Proposition. All the remote & exciting causes of disease however diversified are an unit, all included under the name of Stimulus. The diseases produced by them the same, just as fire is the same whether generated by friction, percussion Detonation Electricity &c

3^d General Proposition Disease when excited consists in Morbid excitement or irregular action in which Nature is driven from the helm & the functions of the body are performed with difficulty. Excitement may be excessive & not morbid, as in the excessive or elevated excitement produced by running Dancing or any violent exercise. Disease is often combined with the remains of Depression, & some times of predisposing debility. The remote & exciting causes of disease are often blended together & act at the same time also the exciting & predisposing. Disease is either obvious or sensible, or it is suffocated. Reaction is the effect partly of ^{the} elasticity of the Muscular fibre. Morbid excitement ^{the exciting} is often greatly disproportioned to ^{predisposing} cause, ^{suffocated} excitement. - Discovers itself by wakefulness

I know of no disease which invades every
part of the system

wakefulness, flushed Countenance yellowness or redness of the Eyes, pulse natural - It may be converted into obvious disease by V. -

4th General Proposition - Morbid excitement or disease is always Partial. Thus in fever it is confined ^{chiefly} to the Blood vessels, in Mania to the Brain - In Tetanus to the Muscles & in Depravity to the Intestines. Absence of excitement in some one part seems necessary to favour its accumulation in other parts. Absence of healthy excitement in ~~some~~ one part seems necessary to a morbid accumulation of it in another. There ^{are} frequently days weeks & even years between debility & the morbid excitement produced by it -

5th Part General Proposition - There is but one fever one disease throughout the whole world & all the forms of it are produced by morbid excitement or irregular action. There is but one sin & that is Selflove Adam was affected by debility in his will when he ate of the forbidden fruit. - It is immaterial where situated or however varied by texture still I contend for the unity of disease. (You will see that

* The functions of the body are performed with difficulty

* In most of the whole system is more or less deranged - a kind of delirium invades the diseased parts

The solids are overstretched or contracted The fluids are propelled out of their native channels Error Loci becomes general

x whether from action or abstraction

© or morb. ex

that I differ from Brown in my principles he makes debility a disease I make it one of the causes of disease. Obstructions & Schirrus of the Liver are effects of disease, not disease

All disorders are confined to cases where morbid excitement has ceased or was never excited.

Disorders are many, Disease ^{but} one. Many persons die of debility & disorder without disease

When disease is present the whole system is more or less deranged by it. There is preternatural excitement without excitability & excitability without excitement. * Old associations are discovered & destroyed. ^{the system} The system affected by disease may be compared to a Ship in a Storm at sea, Nature is driven from the Helm & every thing is thrown out of its natural situation. *

Disease may be compared to a Ladder ascending & descending by the follow^g steps -

1^o Elevated & ordinary excitement 2^o Debility or Predisposition 3^o Preternatural accumulation of excitability 4^o Depression 5^o Action of an exciting cause or an irritant 6^o disease, 7^o Oppression or suffocated excitement 8^o

o to such a degree as to be relieved by Stimulants & not anacients
& left by the cure or removal of the disease

21
Prostration ^{of excitement} below the Point of reaction^o & Disorders or effects of disease 10th & lastly Debility. This is the usual order but there are many exceptions. Sometimes remote causes leap over debility & depression & directly induce disease. Sometimes overleaps disease & produces disorders. Remote causes are sometimes so violent as to leap over all the intermediate steps inducing sudden Death. We sometimes see debility Depression Oppression Disease Disorders & Death all at the same time occupying different parts of the system. Inflammation (and as Hunter supposed the highest grade of disease) is the effect of disease & only takes place when Morbid excitement is moderate. Death often occurs without inflammation as in violent fevers that kill suddenly. They kill by the immense force of the remote cause extinguishing life without giving time for the production of inflammation or even disease. Death often occurs from Hydrocephalus Internus, Apoplexy &c without any inflammation discoverable on dissection. Morbid Excite-
some

* We are born with an innate predisposition to
disease or Morb: & -

is sometimes so violent as not to admit of effusion of any kind. The worst Ophthalmia are those where inflammation of the eye is not evident - they may be made so by a plentiful use of bloodletting & - We come next to the

Forms of Disease these are

1 Convulsion or the proximate cause of fever - This is chiefly confined to the blood vessels & muscles, occurs in Fevers Parturition, ^{Tetanus, Epilepsy} &

2 Spasm This affects the muscles as in Cramp the bowels as in Colic the Stomach as in Gastrodyspea the Trachea as in Cynanche Trachealis the Uterus as in Parturition & It is divided into Tonic & Clonic - The former is constant the latter alternates - Clonic Spasms occur in Parturition. -

3^d Preternatural heat either external or internal as in the Skin Stomach &c It is always local

4 Itching. This occurs on the Skin, Anus Scrotum &c Never on an internal part or beyond the reach of the Nails -

5th Aura or Shocks - as Aura Articularis in Gout - & an aura called by the French Tic Doloréux but more properly Aura Dolorificæ of

* Suffocated excitement includes oppression
& prostration. This consists in such an accu-
mulation & absorption ^{& concentration} of Morbid excitement
as to suspend sensation & Motion —

I have known it in the Head - it consists of sudden darting pains - As a Shock of Electricity it goes & comes on.

3^d Suffocated Excitement * This occurs chiefly in the Lungs, Brain, Bloodvessels & known by the absence of frequent full Pulse & Great Heat will become evident. The pulse rises & falls. I by no means limit the forms of disease to 6 there are probably many grades & shades of the 3 primary forms ^{How often in general they may} all arise from one cause - Morb. Excitement -

There is hardly any disease confined exclusively to one form of Morb. Excitement - often 2 or more exist at once in the same part - sometimes they are all present at the same time but in different parts; sometimes they succeed each other in the same part & even on the same day. We see storms sometimes with rain then wind, Hail, Snow & Snow storms are an unit & arise only from one cause - Morbid excitement in the atmosphere. - Thus Gent: have I given you the history of the Nomenclature of disease - it may be seen in every ^{detail}

+ Noology many headed Mounster Hay no more
Let unity of Divine perform the Cure. —

disease in a greater or less degree - Nosology may be compared to Old Heathen Mythology +

Application of the above Principles

When excitement is elevated regard the system in an unsafe state - Remove Stimuli of all kinds & advise rest - Remove the Predisposing Cause (debility) by gentle Stimuli gradually applied. Defend the System with double the care when debility is greatest, at midnight in the morning & evening - Gradually expend excitement to prevent accumulation of excitability. ^{& Depression} If disease consists in irregular action, let your remedies be calculated to make it regular. Is disease an Unit - Then why not remove the same grade of it, wherever seated by the same remedies. Tertian Pulse whether it occurs in Fever in Pulmonary Consumption or in Madness calls for similar remedies - The same grade of M. Excitem^t in ^{the} Lungs Brain Liver Bowels & call for similar remedies. I do not however mean to say that disease is always to be cured by the same

If partial, Let our remedies be to restore
the Equilibrium of the System

* 2 Disease produces Congestions in the bloodvessels
This begins in the veins —

same Remedies. They require to be varied according to the part affected, & to the violence of the disease &c

Effects of Disease.

1st Inflammation or effusion of red blood into the serous Vessels so much so as to raise the parts, as in Ophthalmia sometimes inflammation is so high as to rupture the vessels - an error loci. The action of the vessels in the inflamed part is diminished, but that of the surrounding vessels increased. After this has continued for some time the circulation becomes languid, & congestions tumours &c are formed. - *

2nd ^{Increased} Secretion, ^{& Excretion} or effusion of serum^{re} constituting Dropsy, Gravel - Pus from unbroken as well as from broken vessels - Black secretions of the Stomach as in Ty. Fever - matter of Carbuncle, small pox &c. This effusion of serum is often formed into Membrane as in the Trachea Uterus & Lungs. -

3rd An increase of secretion & Excretion, as mucus Semen &c

4th To induce Schirri Indurated tumours &c

5th To produce unnatural Sensibility ^{irritability}

X 6 Eruptions

or a deficiency of both or either of them. As in
Stupor Mentis &c. X

7th Changes certain parts into bone

& Produces Cancer

8th Certain changes in the blood & all the fluids of the body, rendering them acid & altering their proportions

10. Death partial or General - Partial death is Gangrene

all these depend on obstructions of various vessels
 all the effects mentioned are not the effects result
 of perceptible actions

Seats of Disease

in a discussion of this matter of right

of the right of the people to be

of the right of the people to be

of the right of the people to be

of the right of the people to be

of the right of the people to be

of the right of the people to be

of the right of the people to be

of the right of the people to be

of the right of the people to be

of the right of the people to be

of the right of the people to be

of the right of the people to be

Seats of Disease

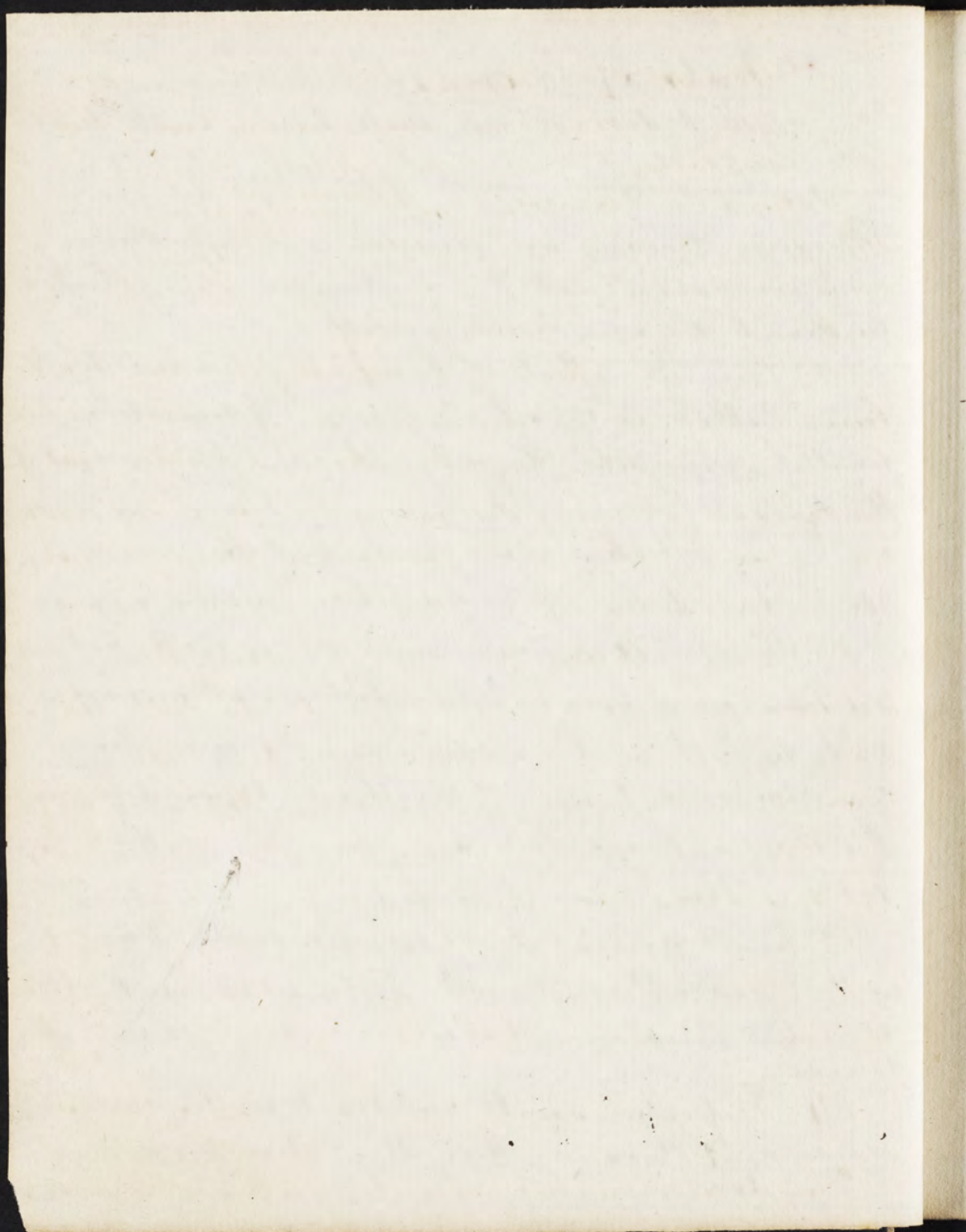
The seats of disease are sometimes with difficulty ascertained

1st Object to the necessity of knowing the seats
1st Because diseases are sometimes dumb showing no fever pain, heat &c. The liver is often affected without disease showing itself —

2^d From the effects of Sympathy, or what has been called intercommunication of sensation, we find it impossible to judge precisely of the seat of the disease. Many diseases of the brain are produced by an affection of the stomach & vice versa, & how often do the signs of disease in one appear in the other. A woman was seized with puking & discharge of bile from the intestines w^{ch} was supposed to be bro^t on by a schirrus of the liver, these symptoms continued & she died. Upon dissection the liver appeared to be in a healthy state, & her Uterus alone was diseased.

3^d In all general diseases the seats change with the weather, seasons of the year, with the remedies employed, & also in certain stages of the disease.

4th Dissections will not teach us the causes of disease. 1st Because they often shew us none. 2^d They deceive us by presenting effects for causes.



Thus Ulcers in the lungs in Pulm. Consumption
are the effects not causes, Water in the Brain tho't
to be the cause of Hydroceph. Intern, whilst it is only
the effect - 3^d We often find marks remote from
the diseased part - for instance, A Stone in one
Kidney with disease in the other &c &c

Tho' I mention it is difficult & often impossible
to find out the principal seat of disease - Yet
I am far from thinking this kind of knowledge
unattainable or altogether useless - Thus diseases
of the head yield most readily to Purging - those
of the Lungs to Vef. & those of the limbs to sweat^s
& blisters - Happy for us we can cure disease
without being acquainted with its seat - We
have an important resource in both the arms
There exist Signals w^h indicate diseases bet-
ter than any thing else - I mean the Pulse,
& if this at any time fails the tongue Countenance
&c &c may perform a vicarious office for it
A uniform knowledge of the seat of disease
w^d be useful as we cannot tell whether its com-
mon or connex Surface be affected or whether its
Arteries or Lymphatics

Signs of Disease —

Signs of disease have been divided into common & proper, also into primary & secondary. Symptoms of disease have also been divided into Diagnostic & Pathognomic. They are however uncertain & unnecessary.

1st Relation Sympathy & Association are different in the diseased & healthy state

2nd Signs of the same disease is different in different people

3 They differ in the force of the same disease in the same person at different times

4 They differ in different climates

5 They are in many instances a part of the same disease

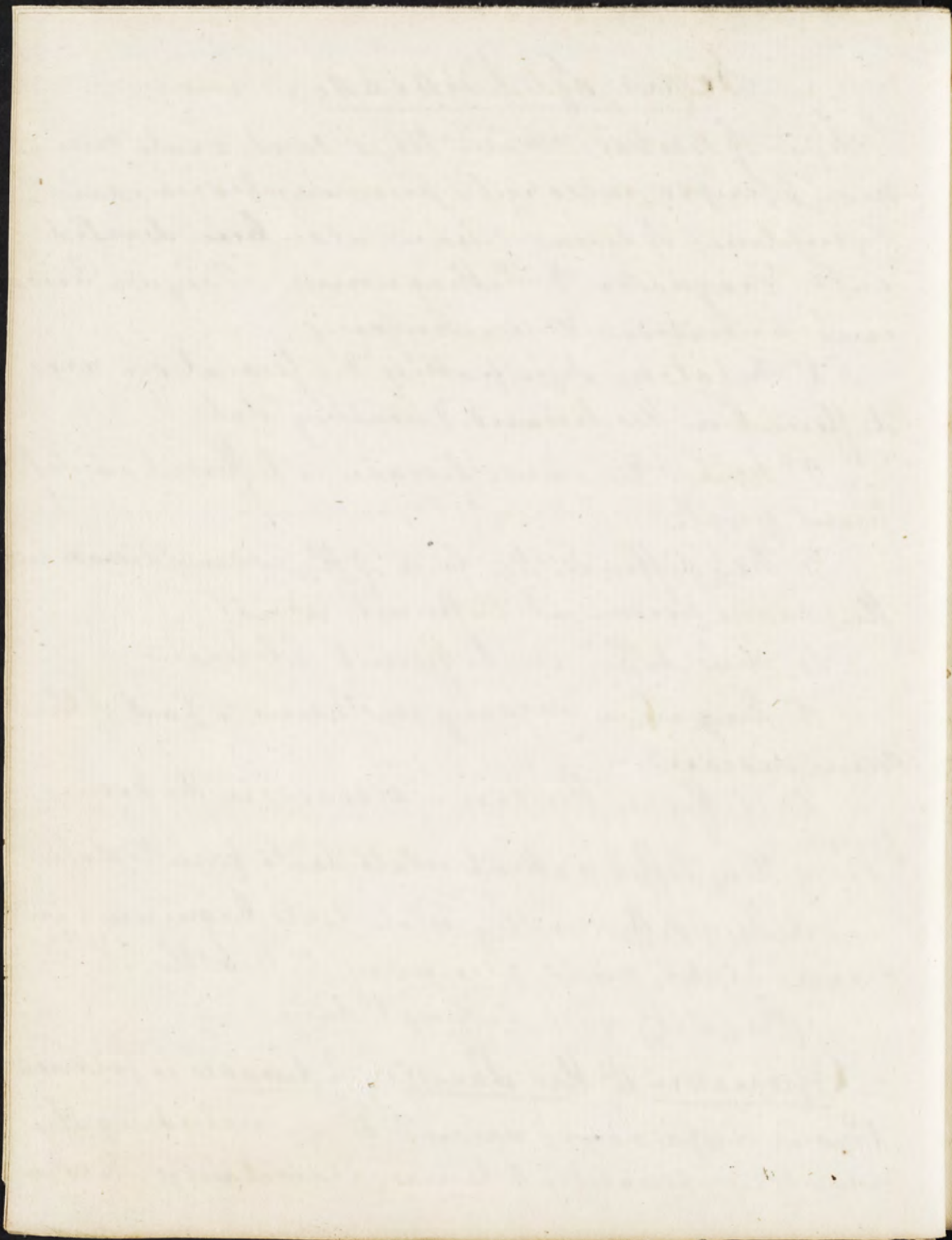
6 to differ in the same diseases in the same person

7 They differ as they relate to its form^d state

8 They differ as they relate to its beginning increase, height, crisis & tendency to health.

9 They differ in different days. —

Opinion of the danger of diseases is formed from Respiration urine & feces, including the quantity. Quality & times of discharge Costive



ness is a sign of Predisposition to Dysentery. —

Vertigo of Predisposition to Apoplexy. —

2^d The Tongue A yellow indicates in some cases diseases of the Bile &c

3 Respiration

4 Conversation

5 The position of the body in bed

6 State of the Muscles —

7 The Appetite

8 The senses & Mental faculties

9 State of the body as to heat or Cold

10 The existence or non existence of pain also the nature of it —

Pain

There are 3 Causes of pain

1 Stimulus overdistending & producing a tendency to Mechanical solution as in Fever
Luxation of Bone &c

2^d By such a relaxation of fibres as disposes them mechanically to contract. —

3 Certain Chymical Stimuli

The signs of pain appear in every part of the body all in a convulsed or contracted state. Hence

[The text on this page is extremely faint and illegible, appearing as ghosting or bleed-through from the reverse side. It seems to consist of several paragraphs of handwritten text.]

the phrase of biting the dust - That pain may be felt it is necessary that the extremities of the nerves, & the mind, be not preoccupied so as not to be elevated above the grade of pain. Sometimes in highly elevated states Pleasures cannot be felt - Also when the system is below the grade of pain as in the low state of Typhus - Epilepsy & Drunkenness have suspended the pains of Parturition. An insensibility to the pain of wounds in battle is owing to the system being excited above the grade of pain, & some submit to severe operations with readiness - The insensibility of the primitive Martyrs amidst all their sufferings was owing to the same cause, as also of the Indians when suffering.

Pain tho' an unit imparts very different sensations, as it affects different parts of the body. Thus it is twisting in the Joints - Acute in the Head - jumping in the tooth ache & dull in the Liver.

Pain varies with the causes producing it, thus pain from an injury with a blunt instrument is different from pain when the injury is made with a sharp instrument - The head pays dearly for its pre-eminence as the seat of the mind as it suffers

by sympathy with every important Viscus, Stomach, Uterus, Liver, Spleen

Pain at first excites the mind, afterwards agitates it with the fear of death, produces the loss of domestic affections - In a very high degree it deafens the sufferers to call on their maker, or on their dear, or departed friends. Sometimes it produces sullen silence, singing, laughing, occasional transports of glory &c - Pain is most sensibly felt at the extremities of Nerves

Pain does not always accompany disease, nor is it always proportionate to disease -

Pain is of an attractive nature, this explains the reason why fevers attended with much pain in the back & loins are rarely fatal - Pain is felt most sensibly by persons of a Muscular Predisposition. Women are most susceptible of pain during the periods of Menstruation & pregnancy.

Circumstances of a Consolatory Nature with respect to pain 1st It is seldom constant but has intervals of ease, & it is then best borne as we see in Colic Stone &c. Also best borne when it comes on gradually 2^d Incurable pain is seldom Acute, but dull as in Cancer &c

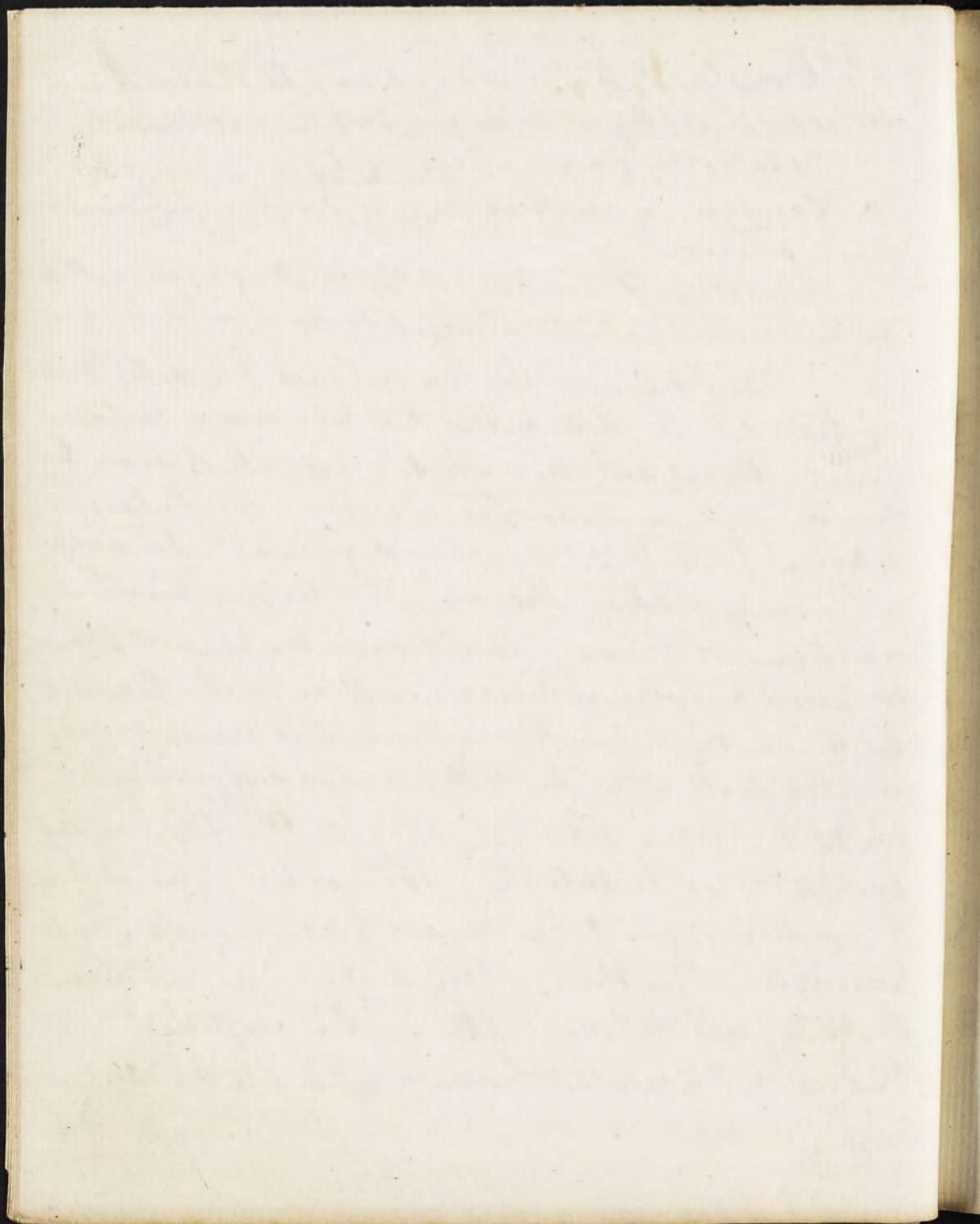
[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is arranged in approximately 15 horizontal lines across the page.]

3^d Constant pain is contrary to Nature, as it destroys itself by wearing away the excitability related to pain is Anxiety

Nausea is another sign of disease different from pain & Anxiety. —

A uniform knowledge of the seat of pain w^d be not only useless but hurtful to us. —

But pain is by no means the only sign of disease. In both arms there are more certain signs — there exist signals w^h indicate disease better than any thing else I mean the Pulse when it fails to give us any informatⁿ of disease, w^h is very seldom the case, the tongue perspiration excretions &c &c may give some insight, or the Countenance perform a vicarious office for it. By an attention to the Pulse I have discovered diseases & prevented death when the patient did not complain of all the signs of disease I regard the Pulse as by far the most valuable — Let not any one of these signs direct you to the causes of diseases or in y^r prescriptions for them — My doctrine rejects none of them, nor sh^d any of them be neglected — But in it the greatest homage is paid to the Pulse.



Pulse

The Pulse may be called a Nosometer or compared to the dial plate of a watch or clock it informs you of all that is going on within. In order to acquire an accurate knowledge of the pulse in its diseased state, it is necessary that we sh^d be acquainted with it in its healthy state & also in the different stages of life -

In the Healthy State of the Pulse it is Open, vigorous, free from all resistance & at equal intervals between each pulsation - This state varies under different circumstances

It varies accord^g to the age of the person - At the commencement of life or a few days or weeks after birth, the pulse ranges between 130 & 140 strokes in a minute - Towards the end of the first year 124, at 2 years of age from 108 to 110, at 3 years of age from 90 to 108; at 4.5 or 6 years of age from 80 to 100 & at 7th it falls from 90 to 72

In adults it is from 60 to 80 generally 66 in the minute - In old age it is less frequent & more full - This is so much

the case, that when it differs from it, it shows signs of disease. at the age of 60 the pulse beats 60. In an old person of this City it beats only 36. In some according to Dr Hederdeen it descends as low as 26.

2^d Sex influences the Pulse in its quickness, that of Females being more frequent than that of Males. — As women are more irritable

3^d Different states of Society or Civilization influence the Pulse. It is slower in Savages than in Persons brought up in a civilized state. Savages want the numerous stimuli of thought conversation & which civilized people enjoy. Hence too the pulse is less frequent in Countrymen than in Citizens. I have felt the Pulse of 10 Indians and found it below 60 in 3 of them, the others ~~was 60~~ ~~reached that number~~ but one of them had been previously sitting by a fire & the other was the offspring of a Frenchman. All those who spend their time in idleness have slower pulses than those who are busily employed.

4th The sizes of people affect the Arterial System, its pulsatory motion being quicker in the short or low. Ceteris paribus, than in the tall. — Haller says in very tall men it is not more than 35

5th Climate & the different seasons of the year affect the pulse, being quicker in warm than in cold climates. In Green-

At 12 o'clock at night it is, at a low degree of frequency - slowest at 7 in the morn^g at mid day stationary, then descends less frequent in the afternoon - at 8 or 9 o'clock it increases - at 12 o'clock at a low degree of frequency -

* Accelerated by a full meal, and decreased by fasting for some time, but afterwards it rises, so persons who die of famine die of a fever. —

it is 100 45

land it scarcely exceeds 40. In the West Indies, quicker in new comers than in the old inhabitants. In new imported slaves it is quicker than in those we have had for some time among us.

6th Different times of the day influence the Pulse. It is slowest in the morning at noon it is highest & then gradually descends till evening, at bed time it is generally slower on account of the exhaustion of excitability. *Different degrees of light & darkness - important.*

7th Different in the sleeping & waking state, quicker in the latter by 8 or 10 Strokes. —

8th Different positions of the body influence the frequency of the Pulse, thus it is slowest when on the Back, quicker when on the sides, quicker still when sitting up, & quickest when in an erect posture.

9th Fasting. Food & drinks, especially such as are stimulating influence the Pulse ⁺ viz quicken it. —

10th Different positions of the arm influence the pulse, when the arm has been exposed to the cold some time the pulse becomes much slower, & also when the arm is pressed under the body, & when its muscles are in action, hence the propriety of warming the arm & relaxing its muscles when we feel the Pulse. —

Chief reduces it below 60

+ Butlers affect the pulse more or less according to the parts applied. We must know the Arterial pulse, ⁱⁿ the carotid, & Pericardial pulse, to distinguish them from the morbid pulse —

11th Exercise of the Understanding & the passions of the mind, those of a sedative lowering & vice versa. — *

12th Anger quickens it to 140, ¹² conversation quickens it. hence the propriety of feeling the pulse before the patient begins to describe his disease

13th Bodily exercise. If the natural state of the Pulse be 64 when sitting, standing will increase it to 68, walking at the rate of 2 miles an hour 78, 4 miles 88, & running from 140 to 150 in the minute. —

14th Pregnancy quickens it, quicker also when the menses flow, & during menstruation. It is of consequence to know this in chronic cases of disease. All pregnant women have their pulse preternaturally quick or slow

15th Certain Medicines quicken the Pulse, such as Opium, Vomits, Purgers, Bark, blisters, steel, hot & Cold Baths &c. *

16th Coughing quickens it. —

17th Fear influences it hence in visiting a Patient we should wait a few moments in order to let him get over his agitation produced by our presence. I have seen the Pulse Fall after prescribing B.F. —

18th Intensity of thought influencing respiration lessens the pulse

Judge Peters -

between 60 and 70 & there it re-
mained - Unobid States of the Pulse

by means of their contagious
sympathy -

There is some deviations from the general rule of the pulse (for example) there is a Gent: in this City whose pulse is 100 in a minute when in good health, & a Lady whose pulse does not exceed 40 in a minute in health & 60 in a high fever. In others it is preternaturally quick. I heard of a Clergyman whose pulse in a healthy state beat 100 in a minute.

Afterwards restored it to the common standard. There must have been too much excitability in the system; this diseased or morbid state, was removed by the action of the fever. Before I enter upon the morbid states of the pulse I deem it necessary to deliver a few Physiological propositions. —

1st The Heart & Arteries are connected & invested wth muscular fibres possessing great irritability, or a susceptibility of being acted upon by the different Stimuli, hence if one part be affected the whole will sympathize. They may be compared to the sensitive plant or to the bells of the Jewish high priest, touch one & all will ring. —

2^d The Heart & Muscular fibre possess irritability. —

3^d The same motions excited in one part of the arterial system are communicated to others, This is illustrated by the case of Hicks who died in this City with an enlarged omen-

For his pulse was very small -

Sit soft, the vessels are so engorged
that they can't put on a tense action -

1st Weakness of the heart itself
2nd The diseased state of the
arteries & veins

8 contracted its diameter 51
lumen which pressed upon the Aorta & affected the whole arterial
system. This will lead to the explanation of many other appear-
ances for in most diseases we may expect to find the same kind
of action in the artery as is in the diseased part. Is the Pulse
tense in acute Pneumony? The same occurs in the Pleura or
membrane of the Lungs in the whole arterial system. Are the
vessels of the Lungs engorged in a Pneumonia Notha? The same
occurs in the whole. Are there intermissions in the pulsations of
the Heart? The same takes place in the whole arterial system.
Is the Stomach or upper bowels inflamed? The pulse is small
because the vessels of these parts are small. The pulse is more
full & tense in inflammations of the Colon, only because the arteries of
the colon are larger. - If the pulse is not small in Ophthalmia &
inflammations of the joints, it is only because larger vessels are
brought into Sympathy by Contiguity. -

There are diseases in which the Pulse does not sympathize, but
these are few & may arise from the following causes. - 1st From
a want of irritability. 2^d From suffocated excitement. 3^d From
the disordered state of the Artery at the wrist. 4th From large
portions of Fat pressing upon the pulse 5th From an accidental
pressure of the Muscles of the arm by the posture of the body. 6th

On the disease being isolated in the
lungs, as in Catarrh, the Artery does not
sympathise, so we are to bleed in a ca-
tarrh without regard to the pulse —
The pulse is slower in inflamed parts —

From cold. 7th From want of irritability in the Contiguous parts. 8th From a want of sympathy in the heart preventing it from equalizing the action of different parts. 9th From unequal excitement in the blood vessels, as in the ataxia fevers of Alibert in Palry & cough. This want of Harmony, accounts for the fact mentioned by J Hunter viz- Sisy Blood with a natural pulse. There may be great disease in one part with little action in another. Let not the number of these exceptions preclude the feeling of the pulse for they do not occur in more than one case in 20, & we sometimes see the absence of pain in malignant fevers when the tongue is foul. & vice versa in diseases of less consequence.

(Thus I have mentioned the different states of the pulse as they occur naturally in the different stages of perfect life, But as Physicians it becomes us to go farther & acquire a knowledge of this important part of the Human frame as it varies in consequence of the numerous incidents & diseases to which it is subjected viz)

The Morbid states of the Pulse.

These are known 1st By their ^{unnatural} frequency & quickness. These are not necessarily connected for the pulse may be very quick and

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

not not frequent as in the Yellow Fever. By frequency is meant the number of strokes in a given time, viz a minute. By quickness the time in which each stroke is performed. The pulse varies from Health in Quickness & Fullness, as in yellow fever & other acute diseases. Here it varies from 60 & 80 to 180 & even 200, & falls in some diseases to 40, 30, 20, & in one or two cases to 9. In Apoplexy it sometimes falls as low as 7.

The Quickness is probably caused by an irritable state of the Bloodvessels, they contract more quickly by the stimulus of the Blood, (the Arteries especially) this irritability I conceive to be induced by the stimulus of Miasmata. Hence it occurs in Intermittents, Yellow Fever &c. This circumstance in some cases gives rise to the intermitting pulse - this is when there is a cessation of Pulsation for a certain time after every 1st, 2^d or 3^d stroke, & frequently occurs in Malignant Fevers.

The slowness may depend upon 3 Causes. 1st Pressure, as in Apoplexy & Palsy, the pulsations being equal to each other, but intermissions occur. 2^d Spasm of the Heart, & 3^d defect of irritability in the Arteries. -

2^d By their force & irregularity, this is of more consequence than variation in frequency, quickness & fullness - also by

- * In the whole external system —
- + In the depressed pulse, the heart and arteries possess their irritability —

imparting a jerking sensation to the fingers, resembling a shattered quill. — We now proceed to consider the different states of the Pulse as they occur in ^{disease & particularly} fever.

1st The Depressed Pulse. This state of the pulse is occasioned by stimuli acting so violently as to depress the system below the point of reaction — or by pressure on some great vessel. — It often descends as low as 40, 30, 20 & sometimes so depressed that it is imperceptible. It is raised by V. It is sometimes preternaturally frequent or slow, attended with intermissions, & sometimes natural. It occurs in Plague, Ty. Fever & Malignant small pox & in Pleurisy. It is either partial or general, occurring in the extremities in the former, & in the latter ⁺ occasioned by stimuli depressing the strength below the healthy state [†]. It resembles the weak or Typhus pulse; the following directions will serve to distinguish them. —

1st The depressed pulse is known by its occurring in the beginning or forming states of Fevers, or in the paroxysm of such fevers & other diseases as are periodical. —

2^o By imparting a sense of tension to the fingers when low & attentively felt.

3^o By occurring in morbid affections of the Brain, Heart,

It is generally quick, but not
always frequent -

I have not also - Groceries Porter

Stomach & Bowels, more frequently than in diseases of other parts of the body.

4th By its being raised by V.G. Purges & taking off the suffocated excitement —

5th By its being frequently attended with slowness or intermissions. This pulse may be compared to a tree bent by the winds & rising to its pristine state when the storm has blown over. while the Typhus resembles a tree shattered by lightning, & which cannot be raised but by the hand of art.

2^o The Catgut, ^{Corded} Sulky or Locked Pulse. is small quick, tense & distinct, imparts a sensation to the fingers similar to that produced by feeling a piece of tense catgut whence I have named it. It occurs in Malign^{Fortis} Fevers

3^o The Synochus (The reverse of the two former) a full, round, vigorous, frequent & quick pulse without hardness, which occurs in the highest grade of Bilious fevers.

Exercise produces a pulse somewhat similar to this. —

4th The Synocha or common Inflammatory Pulse, being full, quick, frequent, & tense, but not round, and is known by heat & thirst & occurs in common inflammatory fevers. This Pulse exists sometimes in the Plague, Ty. Fever Jail Fe.

It imparts a sensation like a Quill or rather a large Quill -

round, full

† Synochus Mitis - This is full, round soft & flowing frequent - occurring in Mild bilious fevers

ver & small pox, but more frequently in Pneumonic affections, Rheumatism & Arthritis. †

5th The Synochula. a quick frequent moderately tense but small pulse a Diminutive of Synocha imparting a sensation to the fingers similar to a small quill & occurs in chronic Rheumatism, Gout, Phthisis Pulmonalis &c and in the 2^d stage of other Fevers. †:

76th The Synochoid. This is alternately a hard & soft pulse, feels like a shattered quill & is a compound of synochus & Synocha. It occurs in the passage of Fevers from the inflammatory to the low state of Putres. or from an acute to a chronic disease. Feels like a quill that has been trodden on.

87th The Typhoid, a frequent & less tense than full pulse. This is composed of Synocha & the slow chronic state of Fevers & occurs in the Plectic & Puerperile fevers & in Scarlatina &c The Pulses preceding Typhus are above Par, those succeeding Typhoid are below par.

79th The Typhus ^{quick} a weak, small frequent but not full or tense pulse. This occurs in the low chronic state of fevers, also in the close of inflammatory diseases, when deple-

✓ Gaseous Pulse

+ Fluctuating

* the Double Pulse

ting remedies have not been used in the first stage. The Bloodvessels in this appear to be deprived of a part of their irritability, it is here that V.S. is forbidden & Stimulants are to be given. x

10 9th The Hectic Pulse. The forms of this Pulse are various being occasionally Synchoid Typhoid & Typhus. It occurs in Phthisis Pulmonalis, Podagra of Testes from the Lues Venerea & Scrophula. -

11 10th The Hobbling Pulse, is unequal or fluctuating, tense, quick & very frequent & may be divided into two, *

- 1st One, two or three quick strokes succeeding a slow one &
- 2^d One, two or three slow strokes succeeding a quick one. -

12 11th The Dicrotus & Capivans Pulses the former strongest & is ^{the deviation just mentioned}

13 12th The Senated Pulse, strikes the fingers like a Saw. -

14 13th The Vermicular Pulse. Small frequent & resembling the motions of a worm. - same length -

15 14th The Creeping Pulse. Weak & Small occurs at the close of Life. -

16 15th The Apparently Natural Pulse, occurs in ^{morbidly} the worst Malignant Fevers, great danger is to be apprehended from this difficult to be distinguished from a healthy one. -

The stroke which succeeded an after-
mission, is twice as strong as the 20.3
preceding —

Scarcely ever any one of these always present. They are therefore combined. 1st In double proportion, as full & weak full & frequent, full & quick, quick & frequent, depressed & weak, slow & intermitting &c.
 2nd They are compounded in a threefold ratio as full strong & frequent, small weak & slow at the same time. — 3rd In a fourfold ratio as full, strong, quick & frequent at the same time. —

17 16th A full, bounding, slow & moderately tense Pulse which occurs in Palsy, Dropsy &c. It is especially slow in the affected side as in Hemiplegia. I examined the pulse of a Paralytic patient whose artery beat on the affected side only 50 in a minute while on the other side it beat from 80 to 96. —

18 17th A weak low Pulse without irregularity. —

Occurs in debility, without fever &c and is distinguished from the weak slow pulse of Malignant Fevers by its occurring in the last stages of diseases. —

19 18th The Aneurismatic Pulse. full tense & jarring.

There is sometimes ^{also} an absence of pulse for 2 or 3 days. I have heard of an absence of it for 7 days. This Pulse occurs in Aneurism — whence its name. A total absence of the Pulse occurs often in violent affections of the Stomach & Bowels, it lasts for hours. One Lady I have known to continue without a pulse for 36 hours

in consequence of eating some oysters. This Lady has since recovered & been quite well for many years. ✕ The Gaseous Pulse

In order to inform your patients of the state of the Pulse, which sometimes they are extremely anxious to know, you should compare it to a scale of 10 degrees, with 5 above & 5 below the healthy point. The Pulse is very much influenced by the strength of Co. dy. In a Pidgeon it is 100 in a Dog 80. In the Ram the pulse has been found to beat 65 in an ox from 36 to 38 & in a horse from 34 to 36 strokes in a Minute. In the U States 40

~~I have now delivered all the Pulses which have occurred in my practice.~~ ✕ D^r Galman a French Physician has discovered another which he calls the

Gaseous Pulse, Soft full & round but sinking under the fingers, even the pressure of the little finger produces this. —

I shall next give you some directions for acquiring a knowledge of the state of the Pulse. —

1st Never feel the pulse of a patient the moment you enter the room. your presence excites hope, fear or some emotion in his mind, w^{ch} has an influence on the Pulse. If the weather be cold, warm your hands & feet first. But beware of entering in to any conversation with him before you feel his pulse, as

+ The first impression of the Pulse like the first sight of a mark to a Sportsman is always the best

the influence of Conversation is very great on the Pulse. x

2^d Place your whole four fingers on the Artery this gives you a much better opportunity of judging than one finger could do. —

3^d If you feel the patients left arm use your right hand & vice versa.

4th Feel the wrist of both arms as there is in many cases a difference in the two from several circumstances, as an exposure of one arm to cold air Pressure on the Artery, &c. &c. I have corrected my judgment frequently in this manner — from one arm I had prescribed bleeding, from feeling the other retracted my opinion. 5. Never remove your hand till you have felt 20 strokes. I have observed an intermission in the pulse at the 18th stroke. The Chinese Physicians feel 49 & hence perhaps their accuracy in the Pulse. 6. If the case be Critical shut your eyes order silence in the room & to use an expression of Darwins, "Concentrate all sensorial power in your fingers ends." The influence of sound &c detract from the accuracy of feeling. —

7 If the Radial Artery be from any cause not easily felt — feel the Temporal which is the next best — & here Gentl: excuse my making mention of a Caution in the application of Blisters — never apply them so as to prevent your feeling the Pulse

if you do feel it afterwards you give him so much pain as to make an attraction in the pulse. The Temporal artery must be felt. - This artery you must feel in diseases of the brain.

Thus Gent: I have related the knowledge I have acquired of the Pulse during my reading & Practice. they are the experience of my life - they dictate when bleeding is indicated & in what quantity. Always feel the pulse before you prescribe any of the following remedies. - Vomits, Purges, Blood-letting. The Hot & Cold Baths, Pediluvium - also before the use of Stimulating medicines - as Bark & wine Stimulating & nourishing Aliment & Drinks, as they all change the Pulse very much. The frequency of the Pulse tho' of little consequence comparatively with the force & other characters of it - has been much relied on by the Physicians of Europe especially Gt Britain - They use for the purpose of acquiring a knowledge of its frequency. moment watches, quarter minute watches &c But this is ridiculous & I hope they will never be introduced to American Practice. A Spanish Physician by the name of Solano has made many observations on the Pulse from some of which he asserts that 100 is the greatest

72
Diseases have been divided into Idiopathic
& Sympathetic. This however is not a good di-
vision for disease is to be cured in the same
way whether Sympathetic or Idiopathic
Hydroceph. Intern: is thought to be produced
by worms in some instances - here the worms
in the intestines constitute the original disease
the Hydroceph: is the Sympathetic. This sym-
pathetic Hydroceph is to be cured however
in the same way as Hydroceph: from a blow
on the head - Diseases have likewise been
divided into contagious & non contagious,
into Endemic & Epidemic, Sporadic, Seasonal
& Autumnal & ^{See page 79} the remote, predisposing & ex-
citing causes of disease act in producing it some-
times separately at other times 2 or all of them
are combined

number of strokes which the arteries can bear consistently wth the recovery of the Patient. 200 in Hydrocephalus is quite common, but whether these ever recover I know not. — The observations of Cullen are opposed to those of Dr Solano, he says Dr S. observations are useless. —

Plato we are told had inscribed over the door of the School where he taught his pupils, Let no one enter here who does not understand Geometry. In like manner were I to dedicate a Temple to Medicine, I would inscribe over the Doors of every Apartment — Let no one enter ^{I depart for} these who does not understand the Pulse.

* Division of Diseases —

Of the Remote Causes of Disease

We come now to enquire into the numerous causes which lay the foundation of disease. It has been aptly said that as soon as a Child comes into the world "it inhales the lurking principles of Death". The remote causes predisposing children to disease are the following. 1st The ignorance of the midwife with respect to delivery. 2nd Washing the child in spirits of wine harsh soap &c. 3rd The use of spirits internally & spicing diet &c. 4th Sucking bad milk &c. 5th Caps swaddling

Air may be divided into hot warm temp:
cool & cold. #

x Heat & Cold are relative terms

A on the nervous system disposing it in a peculiar manner to be affected by stimuli of every kind

B 1 Prematural Activity 2^o indisposition to voluntary motion 3^o Torpor & Languor, producing irritability also

producing irritability of the muscles
Heat affects the mind first with
brightness, afterwards dimmity
& drowsiness.

Hot air exceeds 96° Warm between 96 & 75 temperature 75 to 65 Cool 65 to 32 Cold below 32. These divisions apply to the positive & not to the relative effects of Cold -

cloaths &c 6th The Manner of Education, confinement in close schools &c 7th The Amusements of Children, subjecting them to falls burns &c &c

The Atmosphere produces diseases, by its sensible & insensible qualities. The former are Heat, Cold, Moisture & dryness, density & rarity. Those of the latter are Marsh & Humane effluvia &c From these originate all febrile complaints. *

^{Conduc. effect} Of Heat. This is an universal Stimulant; when moderate as at 75 it is friendly to Health; but when above this produces debility from action. When in excess its effects are shown 1st In the Arterial system by producing fever &c 2nd When combined with the rays of the sun, it affects the Brain producing what has been called insolation, also sleep, stupidity & Death. 3rd On the Nervous system producing convulsions, syncope & death. 4th On the Muscular fibres producing weakness, languor, indisposition, involuntary motion of the muscles, Tetanus &c 5th On the skin producing itching, pimples & a brown colour; when moderate produces moisture, perspiration & sweat; but when in excess preternatural dryness &c 6th On the Stomach increasing the appetite ^{& then inducing a decay} &c 7th It increases the venereal Appetite. 8th It induces a tendency to putrefaction in the Blood. 9th It gives ^{the} Fevers

* It weakens the sense of Taste. it affects hearing in the bowels it disposes to Cholera Dysentery. The urine never indicates scarcely any changes at the Crisis of fevers in the W Indies

A By producing debility it blunts renders dull & weakens the operations of the mind producing languor

B Inflammatory fevers seldom fail to follow heat when preceded by cold. The body suffers less by passing from the extremes of heat to cold than from cold to heat. Heat when long applied produces insensibility to cold as well as to itself

1st Such causes as tend to decrease its morbid effects

2^d Such as tend to increase its morbid effects

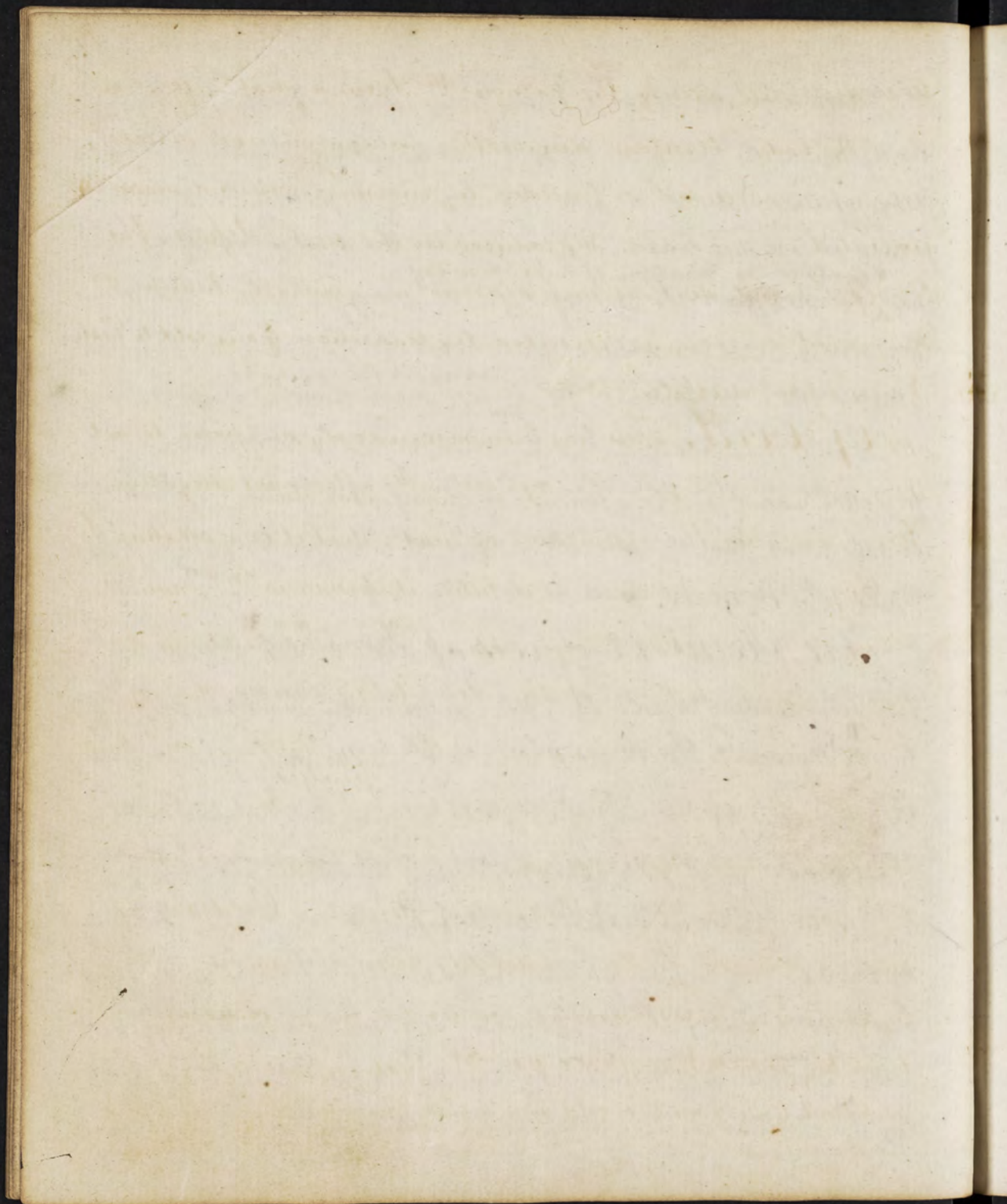
Heat when uniform & dry is healthy, an Air totally devoid of Moisture is scarcely fit for respiration

E Diseases occurring in dry are less violent than those occurring in hot weather

G Morbid effects of heat are much lessened by habit, & time by motion promoting perspiration, by Abstinence, eating vegetables only & drinking nothing but water. Heat as applied to the whole or a part of the body acts differently. it is more injurious in the latter case

the humors in the body, a centrifugal determination as in Bubo, Glandular Swellings &c. 10th It increases the secretion & secretion of bile, which corrects the tendency to putrefaction in the blood mentioned above. 11th It favours the production of the menses ^{& shortens the duration of their flowing} 12th It affects the eye, sight producing gutta serena, ophthalmia &c. 13th It weakens some of the operations of the mind; but strengthens the imagination. ^{increases the laxity &} 14th It lessens the density of the Solids. * 15th It is less friendly to young than to old people, hence the practice amongst the ancients of changing a ^{cold} ~~warm~~ for a ^{warm} ~~cold~~ climate when they became old. By this means they prolonged their lives 10 or 12 years. *

The Relative effects of Heat. ^{are} When the system has been exposed to cold, it is then acted upon more forcibly by heat. ^{B^a} Warm winters are followed by unhealthy springs, hence the propriety of the old saying "that a green Christmas makes a fat grave yard". Weather becoming temperate after being very warm produces diseases by checking perspiration. Autumns succeeding very warm summers are often attended with bilious fevers. ^E The Fall of 1793 was preceded by a warm dry summer. ^{4th Even was then more violent &} No climate necessarily unhealthy: but they are made so by the intemperance &c of the inhabitants; for it is ascertained



that diet, drink, the passions &c have a great influence over the body. Uniform dry weather seldom induces disease, only when succeeded or preceded by moisture; thus diseases are generated in one season & produced in the next. Upon the whole I conclude that wet seasons are generally healthy, & that most diseases are induced by transition from cold to heat & vice versa, diet drink &c

Of Cold. This has been erroneously supposed to act as a stimulant upon the system. Its effects are negative. It acts only by the abstraction of heat; that it is a sedative I infer 1st From the General debility it produces. 2^o From the slowness of the pulse & weariness. 3^o From the operations of it being similar to those of other debilitating causes, such as V. S. purging &c. Is the pulse slow in Pleurisy Ty. Fever &c? Is it from depression. Is it raised by ^{Emetics &c.} V. S.? Is it by abstracting ~~except~~ of stimuli. Is it raised by emetics? Is it by an abstraction of the ~~except~~ of stimuli. Cold acts by inducing direct debility or debility from abstraction; heat by inducing ⁱⁿ direct debility or debility from action. Upon the application of cold part of the heat is abstracted hence the apparent ^{to me} power of cold when our bodies have been debilitated by heat.

c Cold is most injurious when alternated with heat & combined with moisture. Moisture increases the sedative effects of cold by conveying off a greater proportion of the heat of the body

* It attacks the Solids & thus the human body is lessened in size

x by the reflexion of the cold rays from the snow
~~lessened in size~~

Positive
The Effects of Cold ^{appears} 1st upon the arterial system by inducing debility or increasing excitability, disposes the system to all kinds of Fevers. 2^o upon the nervous producing a dullness of sensation. 3^o upon the Muscular, producing languor, debility &c. 4th It invigorates the appetite, hence the Germans are notorious for their warm stables in order that their horses may eat the less. 5th It weakens the venereal appetite. 6th It increases considerably the discharge of urine 7th * it is unfavourable to size. 8th It operates with other causes in producing scurvy. 9th It disposes old arterial pores to bleed & fresh 10th It is unfavourable to vision. 11th It in a certain degree produces paleness of the skin, in a greater redness, & in a still greater a purple or dark colour. 12th It acts powerfully in sleep hence most diseases attack us at that time. 13th It acts more powerfully upon old people than upon young; hence we hear of their being found dead in the cold & with their children by their sides alive. Case of a woman f who was found dead and her child alive & at the breast. —

^{Relative eff. to c}
 Weather uniformly cold is healthy. In Canada diseases of all kinds are locked up, & they are only let out when heat succeeds or precedes cold. Heat succeeding cold produ.

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

ies diseases. The Spring of Russia produces fevers of a peculiar kind, and our falls also; thus the diseases of cold climates are generated in one season & produced in another & vice versa. Heat does not produce diseases after the long application of cold; because the vessels become torpid & are not able to react.

Cold produces diseases in Northern climates when warm dresses houses & are not used. The sudden transition from heat to cold ^{or V. V:} does not necessarily produce disease, or vice versa - more care and attention in accommodating ourselves to the weather by dress diet drink & would prevent diseases.

Middle Latitudes not necessarily unhealthy tho' they require more care & attention to bed cloaths & dress. The Chinese change their dress 2 or 3 times a day, in order to accommodate themselves to the weather.

Cold feet induces Catarrh. Nine tenths of all the diseases of the system are received into it by the avenues of the feet and mouth. Cold acts more powerfully on the system in the sleeping than in the waking state, hence nine tenths of the diseases are taken in the night. Cold acts more powerfully when the stomach is empty, more powerfully on drunkards than on

— 1

older persons; because the first are generally very much debilitated when not under the effects of some stimuli.

Cold as I have said is the predisposing cause of ^{many} all diseases. More suffer from it than from any other cause in nature; not only of man but of other animals. The diseases are also more numerous from this than from other causes. In short there is not a greater enemy to the health & life of man than cold. The spring & autumn between the degrees 35 & 50 are the most healthy. Heat & cold act differently in different months. The following is a table of mortality for one year.

	Whole		Boys		Girls		Men		Women		Widowers	
Jan:	142	--	57									
Feb:	111	--	46									
March	112	--										
April	108	--										
May	107	--	31	29	21							
June	77	--	21	27	8	11						
Aug:	89	--	29	20	18	8	5	9				
Sept:	130	--	36	35	12	34	3	10				
Oct:	110	--	43	35	8	13	2	9				
Nov:	216	--	42	34	101	19	5	15				
Dec:	134	--	38	35	30	15	7	9				

^D Air excessive in its density is hurtful -
Sudden changes from rarity to density & vice
versa are very prejudicial
We have ~~then~~ gone thro' the sensible qualities of the
atmosphere ~~it~~ are heat, cold, ~~Moisture~~ dryness
Rarity density & Pneumonia Anginosa Hem-
orroids & Catarrhs are among the diseases most
frequently induced by the sensible qualities of
the air

The Effects of Wind, in producing disease. Winds are hot & cold dry & moist. They are dry from the west & moist from the east. The body is immersed within them, Sudden changes ^{from heat to cold} more certainly affect the body when accompanied with high winds. They produce certain changes in the mind, as the Sirocco & Harmiel winds. They act more powerfully upon invalids than upon healthy people. Not only winds but the absence of them produce disease.

The Effects of the Rarity & Density of the Atmosphere. Air highly rarified produces numerous diseases, great muscular weakness, difficulty of Breathing, quickness of pulse profuse sweats, sickness of Stomach, sleepiness, an aversion to ardent spirits, & great pain according to Mous Sauvonne. These effects are attributed to a more rapid combustion of arote or a deficiency of oxygen.

Baron Humboldt who ascended the highest mountain said it produced hemorrhagy from the nose eyes mouth &c. By his Eudiometer the oxygen descended to 18 parts in the 100. — Air too dense is very hurtful to asthmatical or consumptive patients. D

Impregnations of the air. We come now to con-

a putrifying animal or vegetable matter

~~B. These Miasmatic exhalations act most power-
fully in the production of disease early in
the evening & in the morning before sunrise, &
soon after combined with cold their power of
producing disease is increased. On what part of
the body do these Miasmata act? I answer in
every part on the stomach & bowels producing
Dysentery, Cholera Morbus & all the intestinal
states of fever & sometimes changing the colour
of the liquor of these parts into black. On the blood
vessels these Miasmata produce Morbid Excite-
& the following forms of fever are the result viz
The Ty: Fever, the Inflammatory Bilious fever, the
Remittent & Intermittent fever the Febricula or
inward fever & These Miasmata act on the Ner-
vous system producing glandular swellings Bu-
boes & They act on the skin producing Eruptions
to Carbuncles. They affect the eyes producing Op-
thalmia~~

sider the impurity of the air as the remote cause of disease.

1st Marsh effluvia or as Dr Mitchell has called them Coino
Miasmatic exhalations. For the production of these, ³ ~~two~~ things
 are necessary; viz heat & moisture; ^a the Thermometer sh^d
 stand at 80. When the ground is covered with water no ex-
 halations can take place. In like manner when the heat and
 drought is so great as to dry the earth, no exhalations can take
 place; but when there is not a sufficient quantity of rain to
 or heat either to overflow or dry up the surface of the ground,
 then the exhalations are produced. The summer should be
 moderately moist to produce miasmata. Heavy rains have
 sometimes produced miasmata by washing off the green co-
 vering that is sometimes found upon stagnant waters and
 which prevented the sun from acting upon them without
 which the miasmata could not be formed. ^B These effluvia
 arise partly from animals & vegetables, but more gener-
 ally from the latter. The following vegetable matters produce
 these marsh effluvia viz Putrid Cabbage, potatoes turnips,
 peppermint, onions aniseed, carraway seed confined in the
 hold of a ship. coffee cotton hemp, flax, straw, old books &
 old paper money, the timber of an old house, loghouses the

Upon what part of the body do these
miasmata act? I answer upon every part

- o & all the intestinal states of fever, & sometimes
changing the colour of the liquor of these
parts into black
- a producing nausea vomiting
- b producing Apoplexy, Mania
- c producing inflammation

// Now let us in the follow^g forms of fever

d Erysipelas Leprosy - The Colour of the African
has been supposed to arise from the same cause

second year after they are built, in consequence of the putrefaction of the bark, green wood confined in cellars, green timber of a ship. Also air stagnating in the whole of a ship & cellars, & stagnated waters when agitated produce miasmata. Fevers are not so often produced by animal as by vegetable effluvia; there are however a few which are produced by the former

2^d Human Effluvia. or Idio-miasmatic exhalations of Dr Mitchell. These are produced from want of cleanliness, dead bodies raw hides & ~~stagnant~~ ^{stagnant} miasmata act first upon the stomach 2^d Upon the intestines, producing Cholera Dysentery & 3^d Upon the Liver, increasing the secretion of bile imparting to it viscosity & acrimony 4th Upon the Blood vessels, producing ^{2^d Yellow} Yellow Fever, ^{Intermittent} Intermittent Remittent, ^{Fevers} Jail, Typhus, or low chronic fever, & febricula or inward fever hemorrhages & 5th On the Brain, ^l Kidneys, ^c Spleen, more particularly this last producing an inflammation or induration in it called Ague cake 6th Upon the Nervous system. 7th On the muscles producing convulsions &c 8th On the Lymphatic system producing ^{disin} glandular swellings &c 9th On the eyes producing Opthalmia &c. 10th upon the skin producing Carbuncles eruptions &c. ^d The human effluvia are of two kinds, from excreted

X Persons long accustomed to these Miasmata are but little affected with them, hence the natives of sickly countries suffer but little or perhaps not at all from the action of the same miasmata it in new comers produce formidable diseases & Death. The seeds of the disease induced by these Miasmata frequently do nothing more than give a predisposition to disease in one summer & in the next summer acting on this predisposition diseases are produced. The diseases produced by miasmata are not contagious they are incapable of generating themselves. These Miasmata have been carried by the winds of miles.

Strange as it may appear it is nevertheless a fact that the existence of these miasma have been called in question, because the Eudiometer does not discover that air impregnated with these, is less pure than air generally is; as well might we deny the existence of a spirit because we do not see it.

There is a species of Miasma exhaled from living animals called by Dr. Mitchell Iodo Miasmatic exhalation. The Jail Fever is produced by it. Plague is sometimes produced by it, & in some instances the scurvy. Dysentery not unfrequently proceeds from it - ~~as Influenza & Catarrh~~

It is a disease of winter & of Cold Countries; it seldom requires or admits of Vef.

& secreted matter). Miasmata may exist in the body 20
 or 30 days without producing disease sometimes even 6
 months. [†]Effluvia are more injurious to health in the
 morning & evening than in the middle of the day. They are
 a ²source always of disease, & are assisted by the following
 circumstances. Uncleanliness, confinement in large crowds,
 low rapid vegetable diet, scanty & putrid animal diet,
 mixing of strangers together, great prostration & grief of
 mind; all these predispose to disease. Cold weather is fa-
 vourable to the spreading of Contagious diseases in conse-
 quence of the houses being shut up very close in order to
 keep the cold out. [†]Woollen & other cloaths spread & retain
 contagion, wood also. Walls if white washed will not re-
 tain the effluvia of Typhus fever. Effluvia act more power-
 fully upon the system when in a debilitated state. Preg-
 nant women often escape the M: Fever in consequence of the
 stimulus of distention from pregnancy, also persons affected
 with running sores escape it. Persons are capable of affecting
 themselves with miasmata. Persons highly charged with
 miasmata may affect others without being affected themselves.
Human Effluvia affect 1st The Blood vessels. 2nd The

x It is difficult to tell what it is in the air
wh^{ch} constitutes an inflammatory constitution
of the Atmosphere but certain I am such in-
flammatory constitution does often exist - I once
thought it depended on the air being super oxy-
genated, but late experiments of the Chemists
have proved that the proportion of Oxygen in the
air is the same when the inflammatory constitu-
tion prevails as at other times

o The blood vessels being affected with but a feeble de-
gree of action

B There are 2 species of Contagion and I shall say
hereafter the one from a secreted & the other from
an excreted matter. - From all the excretions but
particularly the perspirable matter the *Idio Miasmata*
proceed

Brain with delirium 3^d The glands 4th Produce Dysentery
 5th Intermittent & Malignant fevers. 6th Scoury & Catarrh and
 lastly influenza. Human effluvia are often combined with
 marsh miasmata in producing bilious fevers. These are sel-
 dom conveyed more than 10 or 12 Feet from the body. ^X No cli-
 mate or country necessarily unhealthy; for fevers depending
 upon both the human & marsh effluvia are owing entirely to
 the carelessness of men. Were we to take the necessary pre-
 cautions to drain our meadows of their impure stagnant water,
 to remove all putrifying matter from around us & keep our per-
 sons & clean, these malarial distempers would cease to affect the
 human race. They are like the venom sent as a reward for
 our laziness & folly. The jail fever is rare in the U. States; be-
 cause there is not so much poverty & filth among our citizens,
 for these are the causes which give rise to this fever in other places.

The jail fever differs from the bilious or yellow fever in the fol-
 lowing particulars. 1st It comes on in cold weather & is not affected
 by rain or frost. 2^d It most frequently attacks the weak & infirm.
 3^d The Pulse is Typhoid. 4th It continues for 20 or 30 days. 5th It is
 propagated in a different manner by excretion & perspiration.

The Yellow or Bilious fever is distinguished by the follow^g

3² * The matter w^h produce Influenza spreads
with the intercourse of ^{the} Citizens. We I
infer fr^m the sudden increase of Patients in
this disease — I infer that Influenza
does not spread by contagion because it
has never been confined to any one spot
nor could any place be traced as the place
of its origin

particulars. 1st By its attacking in warm weather 2nd By coming on suddenly. 3rd By attacking principally the young & robust 4th By remissions & intermissions. 5th By the increased secretion of bile 6th By its being of a shorter duration as 3, 5 or 7 days; but it now & then runs on in a chronic form from 20 to 25 days. 7th By its being destroyed by cold & heavy rains The human or Idio-miasmatic exhalations & the marsh or Coeno miasmatic exhalations affect the bloodvessels in all the 7 forms of fever viz The Bilious, mild Bilious, Remitting inter-mitting, Typhus Typhoid & Febricula. X

43rd Source of Disease. Phlogiston or air rendered impure by respiration &c. Persons affected with Phthisis are greatly oppressed by this air. 2nd Air is unwholesome when mixed with fumes of sulphur or charcoal. 3rd Air of certain manufactories as lead Arsenic &c when they are volatilized. 4th After earthquakes the air has been observed to be extremely disagreeable especially after one that happened in Jamaica on the 17th of June 1692. 5th The Sirocco & Samoiel winds. 6th Winds that have passed over a hot sandy country. 7th The air of certain mines. If birds fly over the lead mines of Scotland, they are immediately killed on the days of work; but on a Sunday,

* The Atmosphere, impure exhalations from innumerable sources & the increased heat together with the vegetables being forced by manure & thus putrefying sooner are the causes of cities being more unhealthy - Country people are more predisposed to Dysentery from their rapid vegetable diet - Bilious fever Typhus Maligna Consumption &c are more frequently the products of vitiated city air than of country air

Nature of the Soil of either Town or Country

+ of the houses to check the Miasmata

when the labourers rest, they may fly over with impunity. —
 Hence we may learn an important lesson, that a remote
 cause can seldom be able to produce a disease without an ex-
 citing cause; & in the Ty. Fever, I have never seen a case in
 which I could not trace the disease to some cause or other wh^{ch}
 excited it into action. After having thus treated of the impreg-
 nations of the air & their influence over health we will pro-
 ceed to mention the effects of — ^{Contagious Diseases Laws of Epidemics}
^{or coming next p. 190}

Situation over Health. New countries are
 generally healthy untill the trees which occlude the action of the
 sun are partially removed. From the time of clearing until
 cultivation takes place it is sickly. The wood cutters in the ce-
 dar swamps of Delaware & Carolina enjoy good health when
 the trees are standing, but after they are cut down & begin to
 putrify by the solar influence, health abandons the labourers.
 Towns are more sickly than the Country.* It has been compu-
 ted that 3 or 4 die in towns for one in the country. † Sandy
 soils are unhealthy. Vicinity of ^{or Country} Towns, or marshy grounds,
 one great source of disease. Vicinity to deserts & ponds; these
~~but~~ may be remedied by having trees planted ^{between} around them. ‡
 A mountainous more healthy than a low situation, but there is

* A Collision of air is unhealthy, as the air upon
the sea shore, particularly to Asthma &

such as green wood

when recently taken from the ground

• Hence the wealthy Romans never occupied a
house for one year after it was built - A house
is rendered unhealthy from age for the wood when
old exhales a vapour which produces Intermittents
from being too much confined by trees, & for being
too hot or too cold. —

• From the ^{water} used families are sometimes rendered
unhealthy

X Consumption & Rheum: perhaps owing to the
mixture of land & sea air

one exception to this, viz. When the Miasmata arise from the bottom & neighbourhood. * Other local circumstances affect the healthiness of a situation. viz Residence in cellars more unhealthy than in rooms above ground, in Hospitals: Houses situated so as not to receive the action of the sun on every part, are not so healthy as those built in a contrary manner. Dwelling houses often a source of disease from the new materials of which it is made. † This is prevented by previously soaking the timber in water, by which the sap is discharged; also by being built with stone; ‡ by vapours from new plaster & paint. § By moisture of Cellars; by small smoky rooms want of cleanliness &c. —

I knew two cases of Malignant fever which proved fatal near Zacher's court in this City & none of the neighbours affected with it. 2^o I also knew 9 heads of families die of this disease in Arch St. when none of the neighbours were the least affected. These probably originated from something impure in the Cellars, or from some other local cause. 3^o and lastly, a fact more proper to our subject related by van Swieten viz that the whole of the Students together with the Master of a certain University were diseased when none of

+ On rotten vegetables near the University —

the neighbours were the least affected. This probably arose from some exhalations from privies & cellars, or some other local cause.

Change of Situation over health. 1st Persons changing a cold for a warm climate are frequently affected with fevers. 2^d Persons leaving a sickly neighbourhood & coming to a City are affected in the same manner. The miasmata in this case being previously received into the system, are excited into action, in consequence of the many exciting causes in a city, & the system thereby becomes diseased. 3^d Old people leaving a cold & entering a warm climate often become more healthy, whilst the same change of climate in young people would produce inflammatory Complaints. 4th Removals from marshy to airy dry situations often contribute to health; except in old people who often suffer by this change, since it deprives them of a customary stimulus, viz the Marsh Miasmata which on a former occasion were said to be the support in part of old age, but the destruction of youth & the middle aged. 5th Those who have made long sea voyages are frequently affected with Catarrh on a near approach to land, in consequence of a mixture of the land and sea air. (case of a Sea Captⁿ with whom Dr Rush crossed the Atlantic) 6th I have been at much trouble in trying to find out whether

* Excitement & excitability were either so suffocated
that they could not act, or were suspended in
this case

Thunder & Lightning independent of the change of the air, had any influence over the system in producing disease; but have not been able to collect any thing certain on this subject. I knew a lady who could tell the approach of a thunder storm by a giddiness & headache which she always experienced some time before, & which continued until the storm was over. Some persons appear to be born with a fear of thunder. A lady in this City some years ago, in consequence of her dread of thunder would during the continuance of a thunder storm shut herself up in a dark room & drink an immense quantity of spirits without being the least intoxicated; at other times she did not discover the least attachment for them. *

Leeches appear to be sensible of the change of weather by their motions. Mr Cowper informed me, that he could always foretell the approach of thunder by certain motions made by the leeches which he kept in his house. Y^d Sound appears to affect some persons. A lady in this City has always sweats, chills, trembling, & the appearance of great terror on hearing the noise produced by a carriage drawn over the pavements of the streets. Deafness has been induced in two cases to my knowledge, in consequence of the firing of Cannons. ~~It is~~

- * Darkneſs reduces the force & for a time the frequency of the Pulse
- # It has been aſſerted that $3\frac{1}{2}$ of mankind die in the night
- # It affects fevers
- # I have ſeen it in 2 caſes
- © In cold countries the reflexion of the ſun upon the ſnow proves very hurtful to the eyes—

death. Birds have dropped dead from the firing of cannon upon the deck of a ship. We will now consider the effects of the Heavenly bodies upon health, and

1st Of the Sun. We have already considered in what manner the Heat of this body, by warming the air operates on the system. We will now consider its light, absence &c. An excess of solar light sometimes produces blindness & inflammation; while its absence produces temporary blindness from a want of Stimuli, both which are called Nyctalopia whether it depends upon an abundance or deficiency of light. Even the momentary absence of the sun has produced alarming symptoms in the Yellow Fever*. Most diseases attack at night; & death most frequently occurs at that time# may not this be owing to the absence of the Sun? o

2^d Of the Moon. The influence of the Moon is felt by all animated Nature, even the tides are owing to its influence, vegetation is measurably under it. Death occurs more frequently at the full & change of the Moon than at any other time of it. The Paroxysms of many diseases appear to be influenced by the Moon. # Dr. Mosely relates the case of a British Officer who was regularly attacked with Hemoptysis about the full or change of the moon, & at no other time. #

* It affects the tranquility of the mind, hence a
Lady observed her husband to be more petulant
on the full of the moon. —

know a person affected with the Gout in this place, always to have the inflammatory paroxysm on the full or change of the moon. The Moon affects the Nervous System, also madmen, hence the term Lunacy. Epilepsies & Asthmas appear to be under the influence of the moon. * Parturition appears to be hastened by the full. Worms are more troublesome in the bowels of children at the full & change than at any other time. Suicide appears to take place more generally about the full of the moon than at any other time. Hypochondriacs & Epileptic patients appear to be very much influenced by the full & change of the moon. Dr. Haller speaks of a person who felt the calculus in the bladder more sensibly at the change of the Moon than at any other time. Chronic diseases yield less to the influence of the moon than Acute - perhaps from the operation of the medicine keeping up excitement. Eclipses of the Sun & Moon have great influence over the system. During the eclipse of the sun on the 16th June 1806 the Lunatics in the Hospital were remarkably silent for three hours Bera died at the instant of the eclipse of the sun. A more remarkable fact is the following, 24 British Soldiers, were attacked at the moment of an Eclipse with Intermittents. If the eclipse of the 16th June had appeared in the Autumn when

* Dr Darwin has remarked that Apoplexies &
Palmies are more frequent at the equinoxes

persons were predisposed to disease, it is highly probable that diseases would have been immediately produced. The diurnal rotation of the earth appears to have great influence in regulating diseases & probably may sometimes induce them. The pulse varies with the different changes occasioned by the earth's revolution; for instance it is slow in the morning, quicker at noon & slower again at night &c. Dr Darwin has happily called the evening the autumn of the day. It is important to keep these changes in mind, since they will be of great practical use. — *aliments & Drinks* p: 105

Of Contagious Diseases. These were formerly thought to be very numerous; but they are now known to be much more limited. They are divided into Epidemic, Endemic, Sporadic & Intercurrent. Contagious diseases are received into the system, by means of the Lungs, Saliva, Nerves, & Skin. They are sometimes called Specific Contagious, from particular parts of the system being affected only, as the Small pox, chicken pox, Hooping cough, & measles &c. The Lues Venerea, Hæmorrhoids, & diseases of the skin differ from the small pox &c. in being communicated only by contact; also in their originating from a fixed & the small pox &c. from a vola-

* Exclude from the order of Epidemics, all the
diseases produced by Idio miasmatic exhalations
The Jail fever never spreads as an Epidemic

tile matter. Specific contagious diseases act without an exciting cause whilst the Yellow fever & such like diseases which I only consider as Endemics scarcely ever take place without an exciting cause.

Endemic diseases are such as affect many people together in the same place, or country, & originate from some local cause. —

Notwithstanding what has been said to the contrary I believe the Y. Fever to be an endemic of the U. States as well as of the W. Indies. —

Sporadic diseases are such as affect a few only at the same place & time

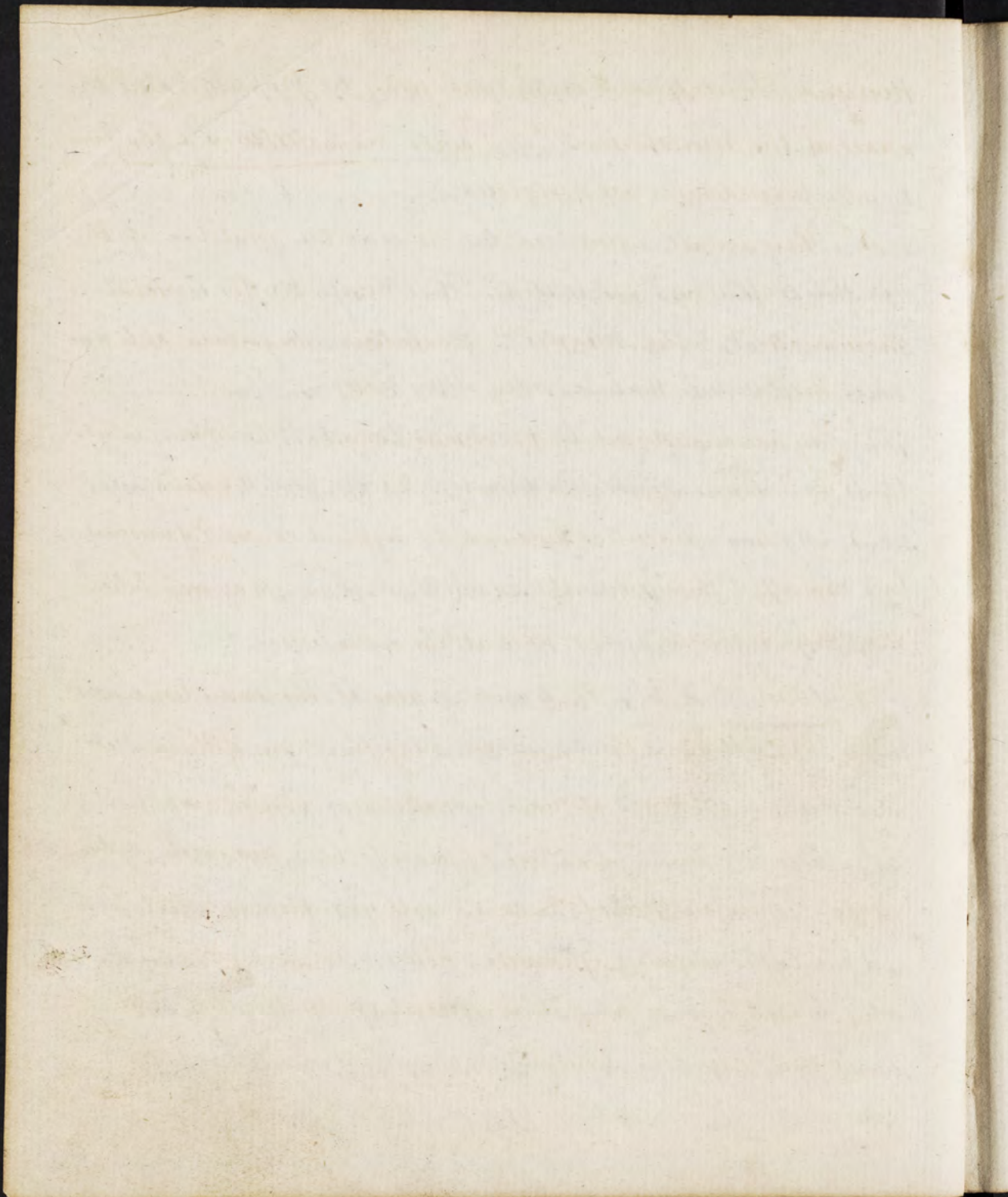
Intercurrent diseases are such as affect a few persons here & there without any regard to place or time.

Epidemic diseases are such as attack sometimes in receding parties; but more generally with great pomp & violence. —

They attack such an immense number of people at the same place and time, as if they were going to destroy the human race; but they can be prevented, repelled & vanquished by

the powers of medicine. — Epidemic diseases arise altogether & invariably from the insensible & foreign matters in the

Atmosphere produced by Coins. miasmatic exhalations, & are small Pox influenza, Cynanche &c. The Cynanche



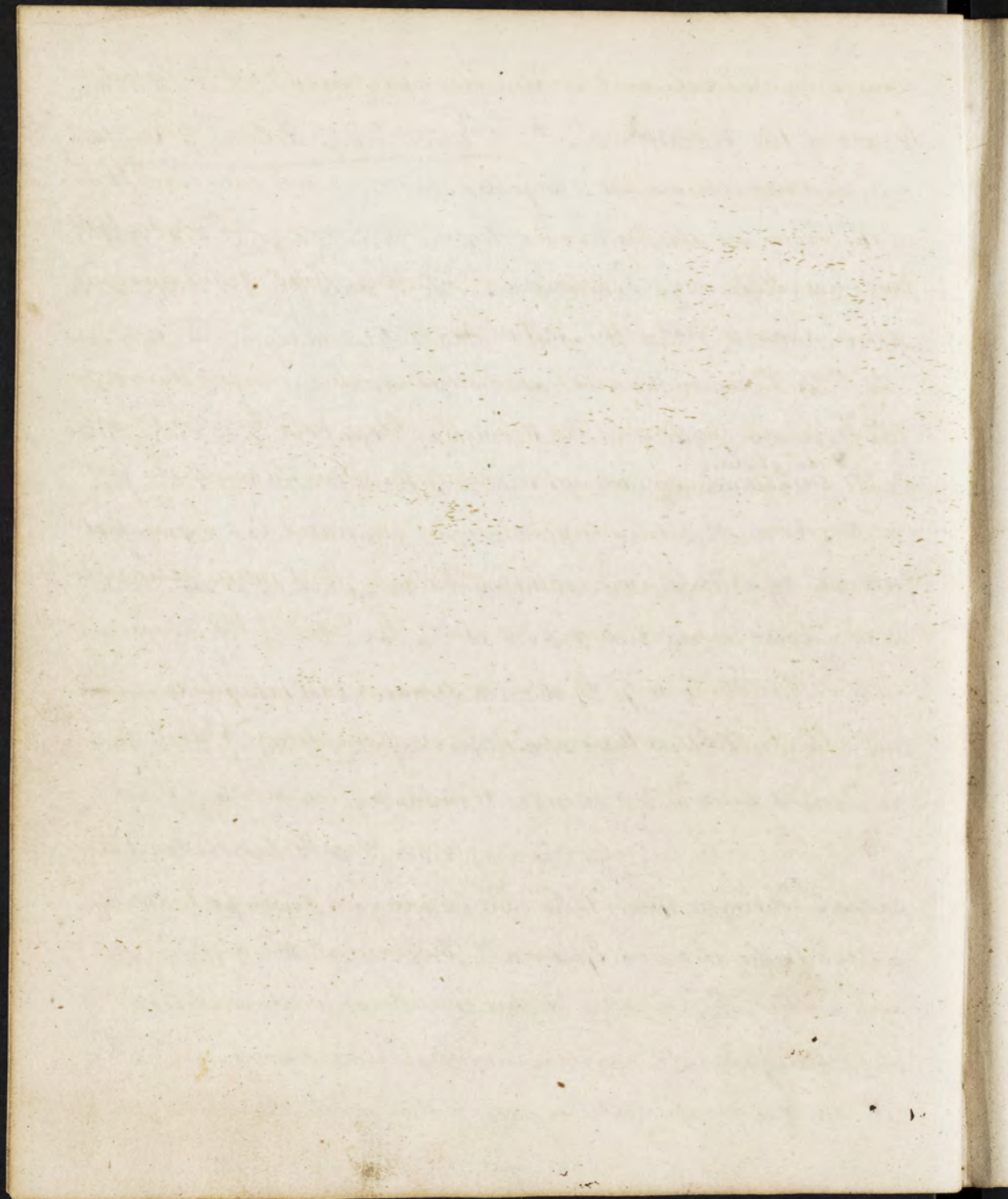
Maligua, Scarlatina & influenza may be properly called diseases of the Atmosphere. * ^{p. 92} I will now deliver a few laws to which Epidemics are subjected. —

1st. They are all influenced by the pernicious qualities of the air, the influenza exempted. The Small pox for instance, is more violent, & the Measles & Scarlatina anginosa still more so in the summer than in any other season.

2^d [∞] They are influenced by provisions & drinks of the season; while ~~fruits~~ ^{& vegetables} for instance, are used the disease is thrown upon the intestines. —

3^d No two epidemics produced by different causes & of unequal force can affect the system at the same time. I would as soon believe that a horse could trot & pace at the same time. —

4th When 2, 3, or 4 Epidemics appear at the same time and place they all blend their symptoms together & one of them predominates over the rest & appears to make them pay homage to it, by wearing its livery: for there appears to be a monarch in diseases. Therefore Gent: take care in all your prescriptions to have an eye to the reigning Epidemic. Hence also we see the reason why broken legs or any other external cause produce Malignant fever, when the system is previously disposed to it. A young man left this city in time of the Y. Fever to avoid it, & on his



way to Germantown was thrown from his horse & had his leg broken, he was very soon seized with a black vomit & in 5 days died. —

5th The more powerful & reigning epidemics not only exact homage from the weaker; but chase them away. Dr Sydenham tells us that the Plague in London in 1665 drove away all other diseases from the City. —

6th The Tyranny of great epidemics is lessened before their departure. Hence the small pox drove the Plague from Constantinople; & the measles chased away the small pox from this City. The first appearance of an Epidemic may be compared to a savage that attacks & destroys men women & children; but when retreating, to a civilized corps of men, who spare the blood of the innocent. It is in this stage only that other diseases can take place. —

7th They appear in a variety of forms & characters, 1st As in the Malignant bilious, remitting inflammatory intermitting fevers &c, in the three different forms of small pox, viz that with & without pustules & the confluent. 2^o They appear in different forms in different years & with different prognosis under different circumstances. 3^o The same causes sometimes produce diseases of different forms & appearances; but still disease is an unit. —

4th Epidemics vary with respect to their violence in different

* The same Epidemic appears sometimes in different parts of a Country under different forms. In one place it will appear perhaps in the form of Ty. Fever, in another of Remitting fever, or common bilious autumnal fever. In a third part of the country it will probably assume the shape of a bilious Colic or Dysentery. The same Epidemic sometimes affects different people of the same City, from a difference of Temperament &c. Thus in persons of the Sanguineous Temp: for instance, it will appear a violent fever. In persons of the Alimentary Temp: it will fall with all its force on the Bowels.

^{This comes in in the next page}
* They are perpetually varying & consequently no uniform mode of treatment is to be pursued, their changes must be attentively watched & our remedies adapted accordingly. This compels a Physician to be a student of Medicine as long as he lives. The same remedies which cure the same Epidemic one year will kill the next. Bleeding will kill one year & cure the next.

seasons & persons & even in different days. —

5 9th Some epidemics require exciting causes, whilst others such as the small Pox &c do not. —

6 10th They come on sometimes with great force & violence & suddenly vanish in consequence of frosts & great rains washing away the cause that produced them. —

7 11th They differ in different parts of the same country. *

8 12th They are often limited to small bounds. —

9 13th They affect people of one nation or colour often, whilst others of a different colour, & strangers escape. In 1793. the French men & negroes escaped the Fever of this City. — *

10 14th They sometimes attack persons of a particular age. Moses speaks of a Plague that carried off many children only. —

11 15th They sometimes affect persons of a particular Sex only. A plague in Italy once carried off 6000 men & scarcely a woman. —

12 16th They sometimes affect persons of particular rank only. — In France 1757 the dysentery attacked the rich whilst the plague in 1758 attacked none but the poor. —

13 17th They sometimes affect members of the same communities & families only from the sameness of Diet Predisposition &c

14 18th They sometimes affect all nations, all colours, all ages all sexes at the same time & place. — *

The white part of bones changed to a yellow
colour in the Y. Fever of Boston

© The Pleurisies w^h have preceded & followed the
Y. Fever here have constantly required more
copious V. & purging than ordinary —

15th They sometimes affect the human species only. —

16th They sometimes affect the human species together with cats, horses, dogs, cows, sheep, fish, & all the others of the brute creation.

17th Lastly it must be observed that different remedies must be used in the same epidemic, in different seasons, & under different circumstances. — # See one leaf back

Of the different Phenomena that have been known to precede & accompany Epidemics. —

1st Hot, ^{cold} dry, & ^{wet} windy weather with rains, ^{more frequent} sometimes precede an Epidemic. —

2nd Weather perfectly calm, so much so, that the leaves of trees were not seen to move & which authors have called "pne aura". Dr. Wilson of Morris Town relates the case of an Epidemic which was preceded by a long calm, & smoky vapour. — #

3rd Diseases which precede Epidemics are more violent than at any other time. The diseases also which follow always ^{inflammatory} partake of a more ~~violent~~ form, or are more chronic. ©

4th Cats appear to be affected in a peculiar manner previous to the appearance of an epidemic. Birds have been observed to be more scarce, & even die in their cages during the continuance of an Epidemic. Insects are more

* At one ⁹³ season the pulse was uniformly pre-
ternaturally frequent. — There is languor sick-
ness at stomach &c. — disposition to sweat

✓ requires the Cooperation of Miasmata —

numerous previous to, or during the time of Epidemics; but the house fly is an exception to this, for at such times they mostly disappear. Mosquitoes never fail to attend Pestilence ^{prematurely}

5th Many Trees emit a peculiar disagreeable smell, drop their leaves & sometimes die.

6th The pulse is ^{in frequent & weak} prematurely slow ~~or frequent~~, during the continuance of an Epidemic. Persons who were in good health became sick in consequence of it, but sometimes it happens that others who were debilitated previous to an Epidemic have become quite healthy, in consequence of one. The miasmata in these instances excited them up to the healthy point. Cattle & fish live a much shorter time during an Epidemic. The Clouds affected the Patients in the Yellow Fever at Charleston by obscuring the sun. Whence these changes? Nineteen out of twenty diseases are derived from the changes of the atmosphere. If Epidemics are changed by so many circumstances, they should be observed with a spy glass.

Some persons have supposed Epidemics to be a curse or a judgment upon them - Reason not only rejects but loaths such nonsense. Let old women & children who assemble around a kitchen fire to hear the tales of Fairies & Hobgoblins, believe this.

* Too much nourishment disposes to all the diseases of Plethora as Apoplexy &c paves the way to indigestion & dyspepsia & lays the foundation for 2 vile practices viz Drunkenness or using Tobacco

The quantity of meat sh^d be regulated by the quality. The use of Aliment is not only to nourish the body, but also acts as a Stimulant.

© Persons accustomed to a definite quantity become sick when increased or diminished

Thus Gentlemen I have delivered to you such facts as I have acquired from observation & experience, during my whole life, & think it proper here to observe, that it is the duty of Physicians to be students as long as they live. — ^{See situation over} health p 99

Aliments & Drinks as productive of disease. This is an important part of our Pathology. I have said before that 9/10 of all the diseases are received into the system by means of the mouth & feet. —

Aliments produce disease by their quantity & quality & 1st of the Quantity. When great, disease is produced by an over distention of the Stomach & by affording too much nourishment to the system*. The effects of too much nourishment will be in proportion to the exercise taken*. A labourer can take much more food with impunity than the idle & sedentary.

The quantity of Food necessary for a labourer is about 8 lb ; but for a sedentary man from 4 to 6 lb is sufficient. # Chardin tells us of a Persian, who would eat 35 lb of water melon a day, without injury. © Lewis Colnaro limited himself to 12 oz of solid food & 130 oz of drink per day. — By adding 12 he lost his health.

The diseases which arise from an insufficiency of food affect chiefly children, slaves, & monks, who thro' a false sense

* Boarding Schools is another great source of
disease ^{acting upon the accumb^d excital^y system.}

Stimulus of the desire of food & of life causes
the increase of strength —

of religion deny themselves the necessary support of life. Children at the breast are often diseased from the mothers not affording a sufficient quantity of milk; since they are unable to live upon any other food, Diarrhoea Dysentery &c follow. *

Slaves are often diseased in consequence of having small allowances, & being made to labour hard by cruel & unthinking Masters. Hunger appears to increase the ^{of some animals} strength. It is said to increase the strength of the Lion very much; ~~which devours~~ 20 ~~lbs of flesh a day when he can get it.~~ * Hunger is said to have great effects upon the temper. Hence it is said to break down stone walls &c before it. * It was in consequence of the strength of fierceness of temper, that was supposed to follow hunger, that the Duke of Marlborough used to say he preferred Scotchmen when hungry, Englishmen when full, & Irishmen when drunk, for an immediate engagement.

Famine increases the excitability of the system, excites pain in the stomach, renders the secretions & excretions ^{offensive breath} gross & ^{death} noxious. ~~rhagies~~ from the stomach, delirium &c close the scene.

Dr Franklin used to relate the case of a Benjaⁿ Say of this state who attempted in imitation of our Saviour to fast 40 days. During this time the Dr visited him & found his

- * Lice, Leprosy, Itch Diarrhoea Dysentery &
- # & old animals more than young
- ** Men who live on wild animals have less strength but more activity than those who live on tame

breath so acid, that upon shaking hands with him it drew tears from his eyes. —

2^d Of the Quality of aliments. These are Animal & vegetable. 1st Of Animal Aliments. which are the following Fish were supposed to be the first animal food of man — It diet solely of fish, ^{produces} ~~is injurious to health~~. * Food wholly animal produces putrid sweats, scurvy &c. & the Animal food of carnivorous Animals produces this effect in a much greater degree than when it is from ^{Herb} ~~grain~~ivorous animals. A great difference between the effect of wild & domestic Animals, the former being much the most wholesome. © The Indians who live altogether upon the wild are exempted from almost all the diseases to which we are subjected. — They are however, not so strong, but more active than those who live upon domestic Animals. —

Animal food produces disease when much exercised before killed; an instance of this occurred some years ago. A farmer killed a beef after working him very hard, & sent it to market. The result was that out of 15 persons who ate of it 14 died. Animal food produces disease when putrid. —

2^d Of Vegetable Aliments. Notwithstanding persons in warm climates live upon them; yet in other climates they

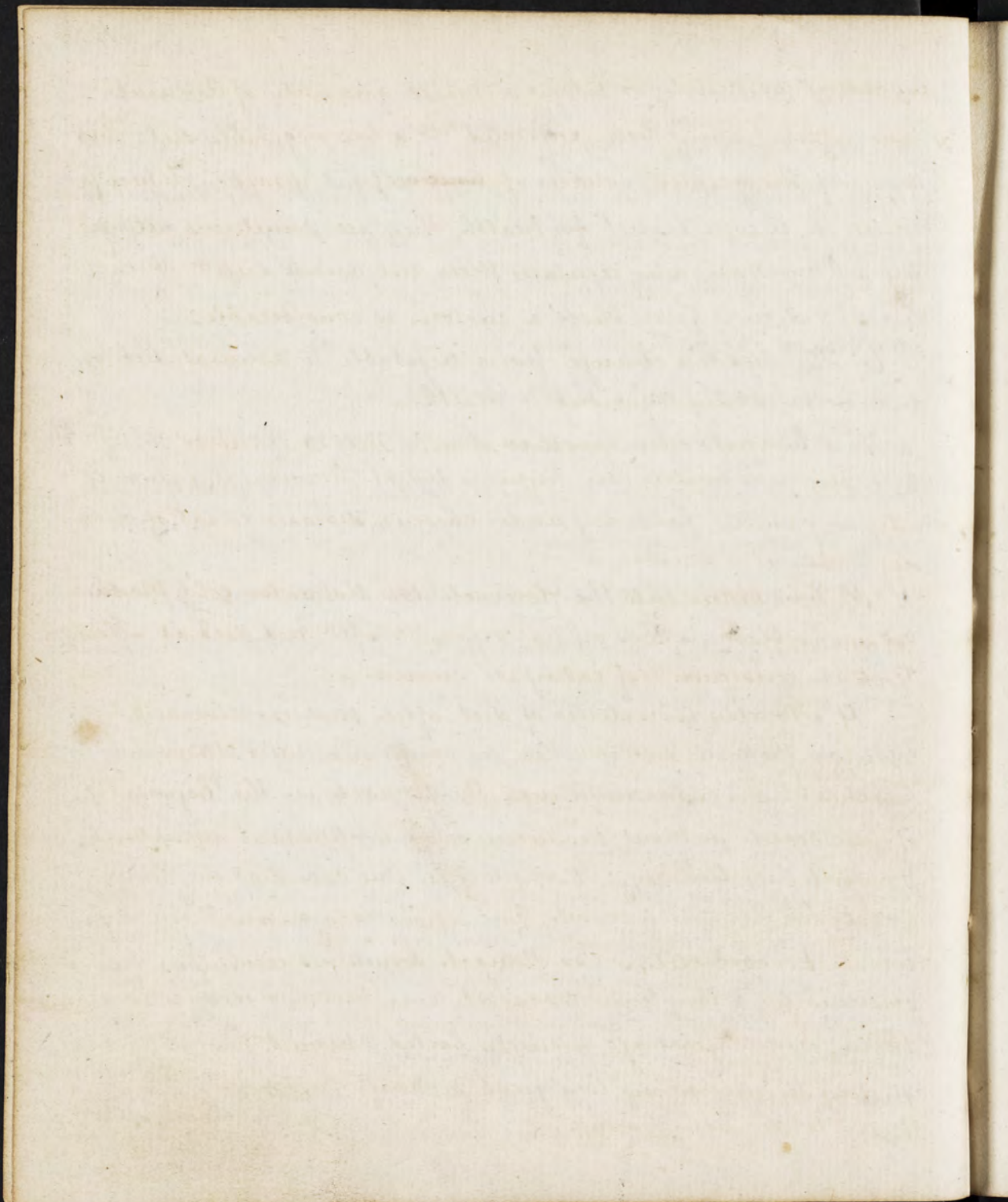
produce disease. — A diet wholly vegetable produces Di-
arrhoea, Dysentery, Dropsy, ^{Dyspepsia} costiveness, a disposition to Gout,
lessens the Heat of the Human body, impairs the venereal ap-
petite, lessens the size of the Human body &c. Some are suppo-
sed to act specifically on the system as Beans, which produce
flatulency, hence the reason why Pythagoras forbade the use of
them at his school. Oats are said to produce cutaneous dis-
eases & blennorrhoea when green are said to dispose to mental debility &c.
Many other circumstances independant of the quality & quan-
tity of food, influence their effects upon the system.

1st The preparations of Aliments in Cooking, materially affect their
digestibility. * 2^d Food when taken into the stomach without
being sufficiently masticated, produces dyspepsia &c.

3^d Too great intervals between meals disorder the stomach. —
This should be avoided by carrying a little gingerbread or Cur-
rent which should be eaten between meals.

4th Exercise or Rest influence the Food in the stomach, the for-
mer rendering animal food harmless, whilst a vegetable diet is
more suitable to the latter. Some Philosophers of late have
ventured to Foretell that vegetable Aliment will in time be-
come the only food of the human race. —

5th Eating too much after fasting is a great source of disease. In
a convalescent state the most dangerous relapses ^{& even Death} are brought on



by eating too much or taking a small quantity of Animal food after having been restricted to a low vegetable diet. This is one of the greatest sources of ~~unsuccessful~~ practice. When families in Europe travel for health, they are sometimes attended by a Physician, who regulates their diet, drink, dress & the benefit derived from such a custom is considerable. —

6th The sudden change from vegetable to animal diet or vice versa is very injurious to health. —

7th An improper mixture of aliments is likewise very prejudicial to health (see Inquiries vol 1) However it is best to advise patients labouring under chronic diseases to eat of one dish only at a meal.

8th Food taken into the Stomach too hot or too cold produces an inflammation of that organ &c. Mr Reid died at New York in consequence of eating ice creams. —

9th Novelty in articles of diet often produces disease & that too when the new diet is taken in small quantities. Watermelons ^{cucumbers} peaches &c. are not received into the Stomach in the Beginning of their season without producing some unpleasant symptoms; & sometimes disease. It appears in this case that the Stomach forgets her old companions, but upon recognising them soon renews her cordiality. The Stomach sometimes remembers her enemies for a long time & scarcely ever becomes reconciled to them; Some years ago a single boiled cherut produced a vomiting in me owing to a great sickness I experienced from them when very young. —

* The first mouthful of such victuals takes
away the appetite

Dr Bond this Lady died for this Cause

10th Food may remain a long time ^{undigested} in the stomach before it shews its pernicious effects. I once knew a Lady to be made sick not until the third day after taking a small quantity of roasted cheese into the stomach. I gave her an Emetic which by discharging the offending matter soon relieved her. Dr Haller says he has known food remain in the stomach from 4 weeks to 7 months, previous to its producing disease. Hence Gent: the necessity of enquiring into our patients food, for days, weeks, & even months & perhaps longer previous to the origin of the disease.

11th Disease may be brought on by eating food cooked in improper vessels, as Copper Lead &c.* Since the introduction of Silver & Iron, stomach complaints are very much diminished in number. Also by filth & extraneous bodies getting into the vessels used to convey food into the system. I once knew an instance of a whole family becoming sick in consequence of eating a baron of milk, into which a spider had fallen. -

12th Animal Food is sometimes rendered unhealthy from a peculiarity of diet on which this animal has subsisted for some time previous to its being killed for our food. Some families in Philadelphia were once diseased from eating a parcel of Pheasants which were brought to market. The Physicians universally attributed this complaint to the cause I have mentioned; & these animals were condemned to be improper

[Faint, illegible handwriting covering the upper two-thirds of the page]

[Faint handwriting at the bottom of the page, including a signature and possibly a date]

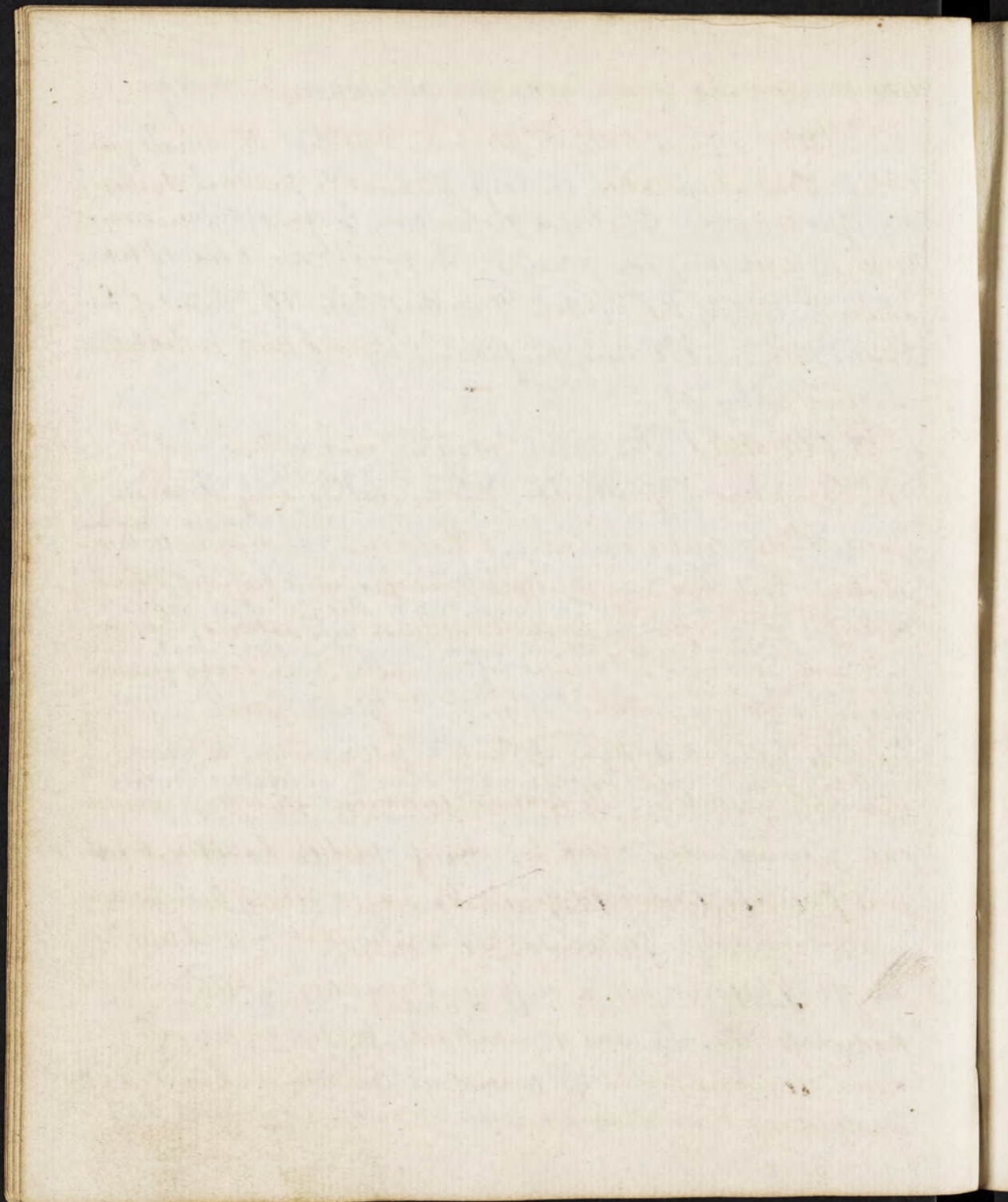
& poisonous. The cause of this poison, however, was from the Pheasants eating a particular fruit called Laurel berry, which is the only food they can get in the winter, & is known to give a temporary poison to the flesh of these animals as well as to the Deer & some few others. I once knew two Students at Princeton College to be affected with a Dysenthea from eating a Pie made of Pidgeons which had chiefly subsisted on poke berries —

13th Salt diet when well proportioned to the state of the system is not unwholesome. The reason that children living in the country are less affected with Cholera ~~Morbida~~ Infantum than those of the town is owing I believe to the salt diet used by the former, ~~which~~ the peculiar vitiation of the latter hinders them from any but fresh food. It were to be wished that our farmers would live on fresh meat in winter & on salt meat in the summer.

14th There is an Idiosyncrasy, which renders aliments wholesome or unwholesome to particular persons, & this Idiosyncrasy is Hereditary. Many people can't eat fish &c.

Of Condiments as productive of disease. These are Salt, Vinegar Mustard sugar & Spices. —

1st Salt is so universal & useful an article of diet that when it could not be obtained, ashes & alkalies were frequently known to be its substitutes. Some nations as the Brazilians & our Indians have never seen salt, but they



use in its stead some alkaline substance. —

2^d Vinegar is both wholesome & proper in small quantities. But when taken in large quantities produce dyspepsia, Gastrodynia, Cholice, a disposition to Gout & a variety of other distressing complaints. In 1770 it was said to take down the fat of the system & induce leanness. Some of our Ladies then used it very profusely, & injured their constitutions materially by it. —

3^d Mustard. The same may be said of this as of vinegar. I once had a Gentleman & Lady with a very obstinate Gastrodynia under my care, & happening to dine with them observed that they used mustard & vinegar very profusely. I advised them to lessen the quantity of these two articles. They did so & soon recovered. Patients often suffer from large quantities or particular qualities of food. Dr Zimmerman informs us that Frederick II King of Prussia fell a victim to his ungovernable appetite. He was an enormous glutton; would eat times a day & took by way of a relish between breakfast & dinner a large Eel pike. He would never believe that he ate too much & when spoken to about it would always say that he only ate a sufficient quantity to keep soul and body together. He was remarkably fond of condiments & the same Dr tells us that at 72 years of age his kitchen resembled an apothecary's shop more than any thing else. —

4th Sugar notwithstanding it is the most grateful & nourishing of all condiments when taken in moderate quantities, yet when taken to an excess produces dyspepsia &c. Honey & Molasses when taken in excess also produces disease. —

5th Spices when taken in small quantities assist digestion; but when taken in large quantities have a contrary effect. —

We will now turn our attention to the effects of Tea & Coffee. A revolution has been made in the customs, manners &c of every nation since the introduction of these articles. —

Tea principally injures by being taken too strong, hence kitchen women are more affected by it than their mistresses. — Tea will sometimes bring on & sometimes prevent sleep; if the system be below the sleeping point, then its stimulus may induce sleep; but if the system be excited above the sleeping point, it prevents sleep. Tea produces nervous complaints such as Hysteria &c When taken very strong and in large quantities; also Gout. Hence the reason why women are more affected with gout than men, as I shall shew you hereafter. —

Coffee is a gentle stimulus & will sometimes produce all the effects of Ardent Spirits. I knew a Physician in this City who always previous to his going out on a visit to his patients in the cold drank a pint of hot coffee. It sometimes produces vertigo & other diseases; in consequence of which I always forbid its use in any one of them. Neither tea or

* Pleurisy; Inflammation of the Horned Liver &c

coffee are nourishing, they only become so by the sugar and milk taken along with them. —

Of Drinks, as productive of disease. These are Water, Wine, Beer, Cider, & Ardent Spirits. —

1 Water is the most wholesome & pure of all drinks; but it is sometimes like the rest the cause of disease. It is the cause of disease 1st By its sensible qualities Cold water injures the tone of the Stomach (that is when very cold) by its sedative effects. — When the system is very much heated, violent spasms of the Stomach arise from drinking very cold water[†]. The teeth are peculiarly affected by cold water[†]. Mr Spence a dentist in this City, informed me that he drew 3 teeth in summer for one in winter which may be ascribed to this cause. Water moderately warmed or suffered to stand half an hour in the air, never produces those dreadful symptoms, which are sometimes its consequences when taken very cold. It also quenches thirst better than when it is very cold; because this last abstracting so much the heat of the Stomach leaves the system debilitated; in consequence of which the system reacts so powerfully, that a fever is produced & water is again required to compose this fever; whereas water not so very cold produces no such effects, since the system has not

7 as time - this produces vomit & Par^o

produces Dyspepsia

to react & therefore no fever is produced. —

2^o By being mixed with unhealthy particles. Water in cities is generally unwholesome for the following reason, that the wells in necessaries which are dug 30 or 40 feet below the surface of the earth generally affect the pump water at the distance of several feet from them. It was on this account that Dr Franklin proposed supplying the City with water from the Schuylkill. Ice in water, beer, cider & punch, will produce but not in wine & ardent spirits. I have known a case of death to be brought on by drinking Ice punch. General Wayne was affected in 1792 by 2 large draughts of Ice punch. Water most wholesome when running over beds of sand & gravel. —

3^o By the quantity & time at which it is taken. Cold water when taken at improper times injures the system. The same may be said of it when taken in large quantities. Many people injure the system by taking large draughts of water early in the morning or late in the evening just before going to bed. This practice comes on by intemperance & is then kept up by habit. It is however a pernicious one, as also that of drinking between meals. The Indians scarcely ever drink water until the evening. Large drinkers of water are generally great gluttons.

* I have elsewhere said that I wished my Pu-
pils to be distinguished by their knowledge
of & attention to the Pulse. I here say I wish them
likewise to be distinguished by their desire of
ardent Spirt. If any of you ever see a Physician
with a Red Nose, or trembling hands, or see him
in a tavern drinking Brandy &c who calls himself
my disciple, contradict him, I disown him - he
is not my disciple but a Brunonian - They sh^d
not be used as medicines lest our patients contract
~~a liking~~ an appetite for these detestable articles

2° Wine has a tendency to produce Gout in the extremities. Here I must observe that gout in the extremities is always produced by fermented or spirituous liquors. Gout may be induced in the stomach without them; but I never knew a case of gout in the extremities except in persons who had been accustomed to those drinks. Wine produces gout more readily in warm than in cold climates & has a tendency to induce costiveness when taken after supper. It is more wholesome when taken with food than without it. —

3° Beer like wine when taken in large quantities disposes to gout & sometimes to Rheumatism. It has been said to produce gravel; if so it is in consequence of its acidity. Dr Haller said that out of one hundred patients who died of Gravel, not one upon examination had been found to use beer. —

4° Cider may be drunk with impunity by labouring persons; but it is productive of Gout & Rheumatism in the sedentary. I knew a Gentleman & Lady in whom the gout was always excited by it. The fruit from which it is obtained is often difficult of digestion & in some stomachs productive of the same complaints. If a red hot iron be plunged into Cider & suffered to cool its tendency to produce gout & Rheumatism is entirely destroyed. The iron acts by obtunding the acid.

5° Ardent Spirits as a drink & source of disease. See Medical Inquiries Vol: It may be proper however to observe here that their effects are experienced on the nerves blood vessels Lymphatics brain &c. also upon the moral faculty. ✱
+ Dress, as inducing disease. Who would believe that the

* The very texture of the body is altered by the nature of clothing. In speaking of fashions I am sorry that our Ladies have followed the dress of France — hence they are seen with thin Petticoats or no Petticoats at all bare elbows & arms naked bosoms &c. & the men in imitation are found wearing great bulging stiff neck cloths in the month of July — The conduct of the female sex in exposing their skin to our sex shews in a peculiar manner the depravity of human nature — The Mother Eve was naked & not ashamed, because she was innocent. But our Ladies go naked I am not ashamed — tho' not always because they are innocent.

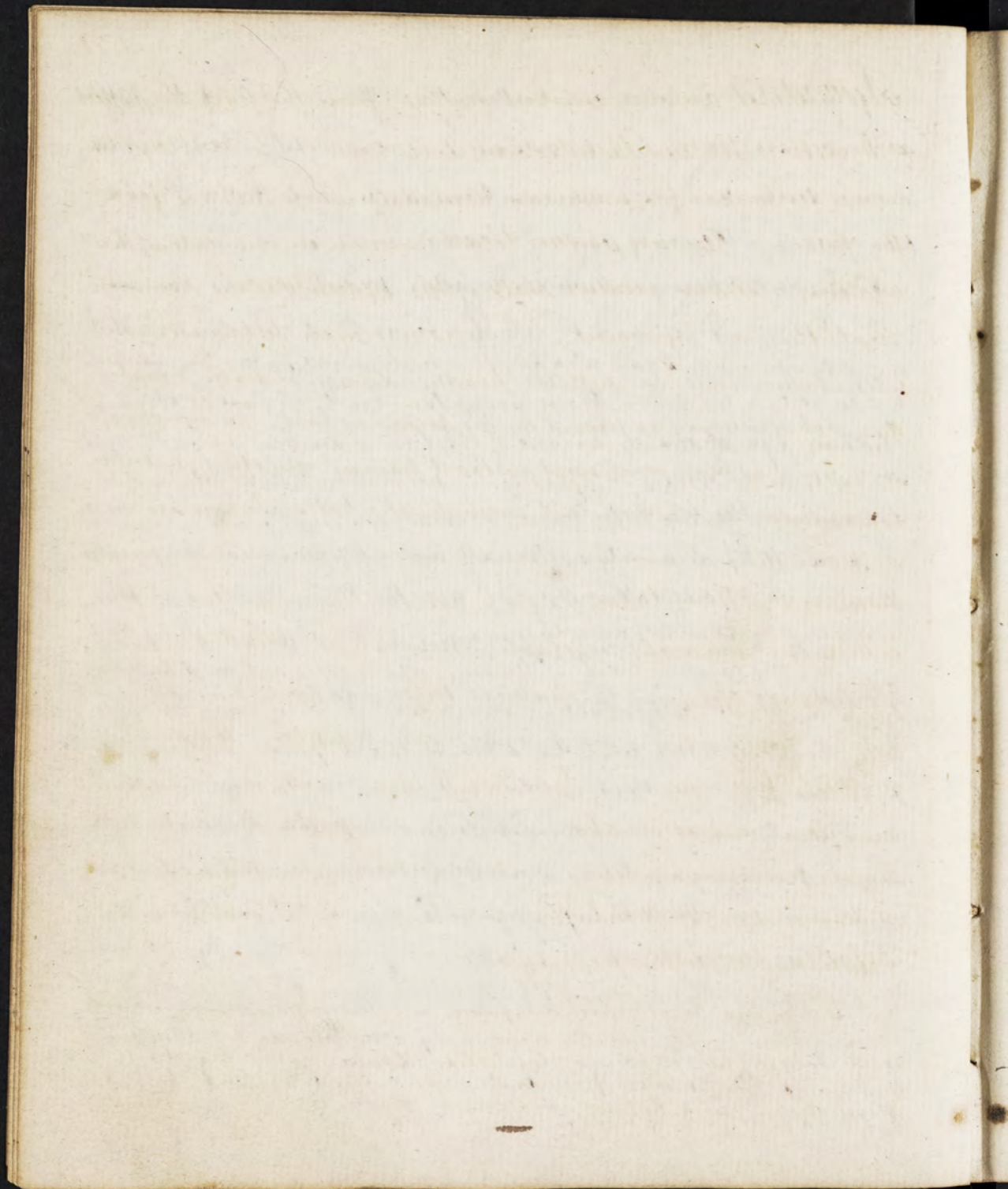
Two thirds of the diseases of Autumn are occasioned by too thin clothing. Clothing shd be changed with every change of the weather.

dress first used to cover our nakedness, after our fall from primeval innocence would be so used as in time to constitute a part of our destruction. The diseases from dress arise from the quantity Fashion & Quality of Our Cloaths.

1st Dress too heavy in warm weather predisposes to disease — #

2nd Fashion is often a source of disease, By dressing too thin thick or tight. I knew a Lady who fainted immediately after she was dressed to go to a tea party from being laced too tight in her stays. — I believe a great many diseases of the brain are brought on by tight cravats, shirt collars &c. Garters by preventing the free return of blood upwards, cause large Hæms, Anasarcaous legs &c. — *

3rd Quality of Cloathing has a great influence over the system. Woollen or cotton clothing is best next the skin. Woollen cloaths have many advantages when worn next the skin. 1st They keep up a gentle perspiration. 2nd When wet they are not so disagreeable, so cold, or so productive of disease. 3rd They may be worn any length of time next the skin, without producing vermin, provided the other cloathing be kept clean. After having considered the diseases of dresses let us next consider the dresses of diseases. 1st Hair powder is a dress of disease, as it was first put on the head in Poland, to prevent the disease Plica Polonica. 2nd Patches in the face were introduced by some drunkard to hide the pimples of this part. 3rd Neck cloths were first introduced by Henry the 8th to hide the deformity occasioned by the Scrophula. 4th Boots were first introduced by Charles 1st to hide the deformity of his legs. —



Poisons are of a relative nature, from the part they affect (as the vipers poison when swallowed is innocent). Some substances are poisonous for particular Animals while they are food for others; or they are poisonous to an Animal in one state of the system; while in another state of the system & to the same Animal they are innocent. Poisons are such substances which when taken into the system produce disease or death, & that they act relatively is proved by the following fact. The venom of a viper has been swallowed without having any effect; but when taken into the bloodvessels it immediately kills. Poisons are only so from their quantity. A small dose of Opium is an agreeable stimulus; but if taken largely kills. Poisons are taken from either the animal, vegetable, Mineral, or Orisal Kingdom. (It belongs however to Natural history to point out the different poisons. It is my province only to explain the manner in which they operate). Poisons like miasmata act by producing local inflammation. The bite of a spider does not kill by its poisonous quality; but by inducing morbid excitement, inflammation & then bringing the rest of the system into sympathy with the part affected. —

2^o In the Vegetable Kingdom we have poisons as Nescotiana, cicuta, hyosciamus, digitalis, Laurus cerasus, datura Stramonium, monkshood, dropwort, & Buckthorn so non-

They produce in parts whose motions are essential to life & inability to perform those motions, & thus death. -

* They act on different parts & are fatal in proportion to the importance of the part affected

© When they act on the Brain & produce death they are taken in by the mouth & destroy the excitement of the Brain. -

& in which they seldom prove fatal. This shews the independance of the mind with the body & that they act on the body by juxtaposition

ishing to man, is a poison to some animals, Others are less dangerous as the cashew nut, which acts only upon the skin. —

3^d Mineral poisons are Arsenic &c.

4th Aerial are aerial acid, naphtho samoiel & samoon winds, & the different kinds of air unfit for respiration.

Poisons have been supposed to act by destroying a certain something called the living principle; But since we have denied the existence of such a principle; it becomes us to account for its operation in another way. We said that the functions of the system were kept up by certain stimuli acting thereon. In short Life is a forced state, & consequently the way we account for the operations of Poisons is, that they destroy the parts to which they are immediately applied, & thereby destroy the ability in the system of discharging its various functions. #

They produce this effect in the same manner that a string tied round a bell, or a piece of wax placed around the string of a violin, prevents the emission of sound from either of them. *

Poisons act specifically. 1st On the Mind. 2^d On the brain. 3^d On the Nerves. 4th On the Muscular System. 5th On the Lymphatics. 6th On the Sanguiferous System ^{as the vessels}. 7th On the skin. 8th On the Stomach & Bowels. 9th On the Lungs ^{as Aerial fluid}. 10th Poisons act generally

on the System as Opium. — & the Contagion of the Plague

Chemistry affords no examples in support of our doc =

* Their stimulus excites a Hectic or Chronic fever

* If we admit the vitality of the blood, we explain
at once the effect of poison, a single drop in-
circulated into the vessels destroy the animal

time of poisons. Mercury put upon Gold destroys all its properties of ductility, malleability &c. Zinc & Copper are both within themselves insonorous, but upon mixture form a fine, brittle, sonorous, & elastic compound. Many other examples of like nature might be adduced from chemistry. May not therefore poisons act upon the blood by mixing with it & destroying its vitality. Formerly we looked up for power to Monarchs & Princes, but of late we have looked downwards, & found it to reside in the people. Since that time we have become more wise & happy. But not so in medicine. We have all been looking inwards for some invisible principle of life; but the Theory I have offered directs us to seek for it from some external quarter; since this theory has been advanced, the phenomena of animal life seem all more plain & simpler. We must now look outwards for the support of life, & like the Indians with their Gods, think we see them in the clouds & winds.

There are some poisons which do not destroy life immediately, (These are generally from the vegetable Kingdom) but, by a long & lingering illness, exhausting the patient, thrust him insensibly as it were out of the world. * This is the way I explain the action the action of those poisons used in the Southern States by the Slaves to extinguish the flame of life in their Masters or mistresses. The Miasmata which produce γ Fever some-

7.
* They are often found in the Lotus & are produced for the liquor in which it floats - Some say they are spontaneously formed - but it is false - the very idea is absurd. Spontaneous creation cannot be admitted without dethroning the Governor of the Universe

times kills instantly, but it nevertheless may & often does bring on a chronic disease. There are frequent instances of persons who have been poisoned, arriving again to perfect health. Even assume itself sometimes yields to the efforts of the system to recover itself. —

Of Foreign Matters introduced into the system as productive of disease.

Worms, from their universal appearance in all animals, I am led to believe serve some purpose in the Human Body, & that when disease is produced by them, it is either by their being in too large a quantity, or by their getting into some improper place. They are found in almost every part of the Human body, in the Liver Bladder & Throat, frontal & nasal-lary sinuses, ^{ear-nose} brain & ^{but most frequently of} Alimentary canal. The different kinds of worms are the Lumbrici or round worm, ^{they are red} The Tania or Tape worm, Ascarides & the Ground worm. These may be taken into the system ^{the mother's milk, or} ~~either~~ by Aliment, or ^{*} are generated in it. I am induced to believe that only the lumbrici serve a good purpose in the system, & this may be by consuming the superfluity of Aliment. ^{the other kinds are intended} The effects of worms are seen more in fall than in any other season. Children are more subject to them than Adults. Some nations are more subject to them than others. The French Italians & Germans, more so than any other nation. Worms produce disease only by their quantity, or by their being

* I am disposed to think that children sometimes get sick from want of a sufficient quantity of worms—

x Worms wh^{ch} lie dormant during the winter & spring, are frequently roused into action in the fall by an inflammatory fever - The additional heat of the body disturb them & render them restless - So that instead of the worms causing the fever we may say, the fever generates as it were the worms

misplaced. * They have no effect upon the bloodvessels, hence then you see I deny the existence of worm fever. * From what I have said Gent: you may think I believe there are few diseases resulting from worms. I would by no means inculcate such an Idea. I believe there are few diseases of children but what are more or less owing to, or accompanied with worms. I seldom therefore advise medicines in chronic cases of young persons, without at the same time having an eye to worms. —

Of Anomalous or extraneous bodies introduced into the Stomach, lungs, nose skin &c as productive of disease. —

I have known death to be induced by swallowing a cherry stone. Copper taken into the Stomach produces distress Nausea &c. I knew a Lady who swallowed a Watermelon seed, which went the wrong way, a violent cough ensued, but ceased as soon as the seed was discharged which was much enlarged. —

Children frequently push grains of Coffee &c up their nose, the consequences of which are often very bad since they often tend to bring on Polypus &c. —

Pins often produce disease by being introduced into a part & not immediately extracted. I attended in consultation a son of Mr R Morris, with a sore in the groin, which was not benefitted by any application until a pin was drawn from it by a Mr Burke who was a member of Congress. &

THE HISTORY OF THE
CITY OF BOSTON
FROM THE FIRST SETTLEMENT
TO THE PRESENT TIME
IN TWO VOLUMES
BY NATHANIEL BENTLEY
OF THE BARRISTER AT LAW
IN GREAT BRITAIN
AND OF THE CHURCH OF ENGLAND
IN THE UNITED STATES OF AMERICA
LONDON: PRINTED BY J. JOHNSON, ST. PAUL'S CHURCH-YARD, 1765.
NEW-YORK: PRINTED BY J. JOHNSON, 1793.

then it quickly healed. A Lady in this City had great pain in her Vagina for some time; however after a while she discharged a pin from that part & was soon brought to her usual state of health. Wounds from nails especially in tendinous parts often induce Tetanus. -

Shot bullets & Powder frequently produce diseases after having remained in the system a long time. I knew a young man who was affected with delirium every 2 or 3 years until a few shot were discharged which had been lodged in the bottom of his feet when young. -

Splinters are frequently the cause of disease. I attended an Officer about the time of the American Revolution, who had a pain in one of his legs, in consultation with another Physician. We both agreed that he had the Gout & treated it as such. Some days after this there came from the place of pain a splinter of about $\frac{1}{8}$ of an inch in length which had been thrust into his feet some years before. -

Paints, Powder & Pomatum are frequently productive of disease such as Head ache &c.

Retained excretions are productive of many diseases. -

Feces when retained for any length of time are very injurious. Their effect however are different upon different persons. Many people go a long time without suffering any in-

+ the

x The following are some of the causes w^h produce an obstruction of the perspiration 1st Unusual exercise of the mind 2nd fatigue of body 3rd Improper clothing 4th Damp air - 5th Night air.

* The Hepatic bile is a secretion & the Cystic an excretion & we here remark

1st Of the Cystic bile - that this commonly induces Costiveness & produces the Black jaundice

2nd Of the Hepatic Bile; while this produces the Yellow Jaundice, either from the absorption or Regurgitation of bile, & emaciation of the whole system, Dropsy, Nausea, Schirrus imperfect blood, White Serum. —

convenience from the Retention of their Feces, particularly sailors. I knew a Sailor that went from Philadelphia to Lisbon & back, without having a single passage in the whole time. Dr. Haller believes the great longevity of Birds to depend upon the readiness with which they discharge their Feces. There are many instances of persons going a week, month, & even more without a fecal discharge, but in general it disposes to many diseases. 1st Dyspepsia & diseases of the Stomach. 2nd The Piles in consequence of the Feces hardening in the intestines 3rd Colic. 4th Inflammation of the Intestines by their irritation. 5th Ruptures; as Inguinal, Scrotal & Umbilical. 6th Diseases of the Brain. The most healthy time for an evacuation of the Feces is generally once in 24 Hours: but this period may be exceeded for a short time & no disease produced.

Perspiration when retained produces dryness & eruptions of the skin, sneezing Colic diarrhoea &c. — X

Urine long retained will produce gravel, tenesmus &c.

Bile when absorbed produces Costiveness, jaundice, inactivity; diseased or false vision, making every object to appear yellow obstruction or schirrus of the Liver &c. The causes of this obstruction are brought on in 3 ways. 1st Spasm 2nd Calculus or Gallstone 3rd Acidity as in the Yellow Fever. — *

Semen when retained; how does it produce disease? I am.

- * 1 Too much motion occasions debility from activity
Violent exercise distends the spleen
Hence in Rome the women were Taylors

* Dyspepsia Hysteria Fluor albus Dropsy & Death ^{Halitus}

x The follow^g circumstances respecting sleep sh^d be attended to

- 1st Posture in bed, head too little or too much deviated predisposes to diseases of the brain. —
- 2 Sleeping always on the back or on one side, to Palsy &c
- 3rd Damp Streets frequently generate Consump^tion
- 4th Too small or large a quantity of bed clothes
- 5th Sleeping with our day clothes on
- 6th In a bed with curtains
- 7 with the head covered
- 8 with unhealthy bed fellows — Consumptive persons &c }
very injurious to children }
- 9 Sleeping with Old people

swell it does not unless accompanied with a preternaturally strong venereal appetite. When it may produce Plethora, distention, & thereby Hysteria, Melancholy, Madness & Death, accompanied with Priapism.

Menses when retained produce a Majority of the Female diseases whether of the chronic or of the acute kind. The Suppression of the Menstr, produces diseases of an highly inflammatory kind, which stand in need of the Lancet. (Not of the Penny-royal tea or other Stimulating medicines termed Emmenagogues)

Rest & Motion as productive of disease. Rest by suppressing perspiration is unfavourable to health. Hence the necessity of imposing on man, labour after his Apostasy, to earn his bread by the sweat of his brow. This was a blessing in disguise. *

Women suffer less than Men from a sedentary life. — #

Sleep & Watchfulness. Too much sleep produces debility from Abstraction & disposes to Fatigue, indigestion, fatuity &c. 7 hours in the 24 are sufficient. Westley who lived to 80 seldom slept more than 4 in the 24. — X

Wakefulness is a relative term & depends upon stimuli — both as to its quantity & quality. The Stimuli of the Passions will often prevent sleep without giving any injury. I knew a card player who would sit up two or three days & nights, without having any desire to sleep. Boerhaave once went 6 weeks without sleep. Haller tells us of a woman, who passed 145 days without

It is sometimes removed by Stimulants some-
times by depleting remedies

* It affects the Stomach & Bowels produces obstructions
of the Spleen & Liver, weakens the brain & disposes to
Mania - weakens the powers of the Senses -
produces a falling off of the hair from the body &c

Inactivity of the mind produces disease - the
mind is weakened by Idleness - But there
is something produced by inactivity of the mind
similar to Dr. Ferrius Stimulus of Vacuity
When the Understanding is torpid, impressions are violent
the Imagination when unduly excited weakens the other
faculties of the mind - hence follows the Madness of Poets
Memory is weakened by inactivity - The Moral fa-
culties are diseased by vice. The Sense of Duty is destroyed in Atheists.
Conscience becomes torpid by repeated acts of vice - thus it has been said
to be sealed with a red hot iron The Believing Faculty is destroyed by
Interest Flattery &c

sleep. The want of sleep is owing sometimes to the debilitating passions of Grief Fear &c. They act by reducing the system below the sleeping point. But above all Wakefulness is kept up or produced by Fever. This state of wakefulness is exemplified in the Anecdote of General Washington, & the Indian Complanter. — In an answer to the General's reply he has the following words "your words contained in the great paper you sent me were like the Sun in the morning to a fever sick man, which makes him glad but does not cure the pain. —

We come now Gent: to an important part of our Pathology. viz. The diseases arising from the intellectual faculties & the General appetite. A gentle exercise of the faculties of the mind is favourable to health; but intense thought brings on debility. 1st When too long continued, or till improper hours. Thus people who sit up late are seldom healthy. The midnight lamp for this reason ought to be avoided*. 2^d It produces debility when the subject is disproportioned to the ability of the person. — #

The Passions are divided into Stimulant & sedative. The former as Hope &c act positively; the latter as despair &c act negatively. These passions are divided into chronic & acute, or in other words passions properly so called & emotions. Sometimes the passions are mixed, & then they produce different effects; as ambition with fear. —

Hope resembles heat, despair resembles cold

* There is a species of Joy denominated by the Indians "the Joy of fear" - Frequent instances of Suicide have occurred from excess of joy. The son of the Duke of Queensborough killed himself immediately after being united to the object of his affections -

O Turgescence of the Vessels, increase of Saliva & Bile - Apoplexy & Death

A change in the countenance, thickens the lower lip wrinkles the face &c

Love produces different effects according as the person is successful or not. Those who are disappointed in love, always love stronger after it; if at the time with their being rejected there is not something that will have a tendency to affront. For this reason Gregory in a legacy to his daughters, told them that when they were addressed by a man, whom they intended to reject, to give a refusal in positive language, that he may have no possible hopes of future success. Unsuccessful love produces Dyspepsia. Hypochondriasis. Hysteria, Melancholy, &c.

Joy is a powerful Stimulant & will sometimes produce Syncope & even death. The door keeper to Congress in time of the Revolution ~~was struck~~ died suddenly thro' joy, when he heard of the capture of Cornwallis, ^{he was a genuine old whig} When joy does not produce death a great depression of spirits often follow & even suicide. Joy is greater when the excitability has been accumulated by previous fear. —

Anger is a powerful stimulant; produces a flow of blood with many other uncommon emotions of the system & will even produce death. A Shoemaker in this City died thro' excess of anger because he could not avenge himself of the injury a parcel of boys had done him, by blowing tobacco smoke into his room thro' the hole of his door; also a miser whilst he was complaining to his tax gatherer fell dead. —

Grief acts like a slow poison upon the system. It is one of the worst of sedatives. It produces ^{the} dyspepsia loss of appetite &c. Grief when excessive will prevent a flow of tears. There is a point of grief which may be called the weeping point; above or

* When grief attacks persons subject to Hysteria
it produces Hypochondriasis

• Thus the Chinese to avoid the Tartars threw
themselves into a river & were drowned —

* Terror may be defined to be fear embodied —

accord^d as it is near to, or far from the party it
acts upon

below which tears will not flow. Tears flow when excessive grief comes down to the weeping point; Hence Hypochondriac patients are so much better after the flow of tears, in consequence of this it appears to approach the Hysteria[†] Persons under deep grief sleep more soundly than at any other time.

Fear When excessive produces ^{palems, thirst tremors} a quick pulse, dryness debility Aphonia, Asphyxia, mania, suspension of labour pains & death. Fear causes the hair to rise upon the head; to become grey sometimes in one night; A man's head became grey in one night in consequence of the excessive fear produced by an earthquake which destroyed Lisbon in 1755. It ~~destroys all the other passions~~ ^{acts on the mind} & sometimes annihilates the desire of life. - Speech gives energy in time of fear, hence boys when under fear, banish it by talking of any other thing besides the subjects around them. It produces debility, & accumulates excitability, hence the reason why cowards perform great exploits. -

Terror[†] is fear in a compound form when combined with anger. - Envy acts like a perpetual blister or issue. - #

Ambition is an inflammatory fever of the mind & has great effects upon it. A Minister of State in Sweden died of a cholera in consequence of his being taken from his place. -

Avarice. Many have died (to use the common expression) undelt to their backs & bellies. It abstracts from the love of one's country.

+ Debauched conversations only take place among men in the decline of life; this appears to be owing to a translation of excitement from the body to the mind - The excitability at this period of life is accumulated & the excitement diminished - Hence they require novelty to produce the effect w^h their bodies are unable to do - And we more frequently find married men prove unfaithful to the marriage bed after 50 than at any other time of life -

try, neighbours, friends, relations, servants, wife, children, & lastly ones self. The following epitaph was written on the tomb stone of the ambitious Arch-bishop of Canterbury. —

Here lies his Grace in cold clay, Glad
Who died for want of what he had. —

It is only by a knowledge of the actions of the passions in a simple & compound state, that a man can have any influence over the minds of others.

The Venereal Appetite, when indulged legally & religiously seldom injures. It injures when indulged by persons too young or too old. The old are not affected unless they have young wives or husbands. When an old man marries a young girl, he expiates his folly by his death. —

It injures when accompanied by obscene books, prints &c. By medicines operating on the organs of Generation as Cantharides — when gratified by onanism. By excess in married men, which is relieved by Lac. Sat. or salivation & low diet. By seminal pollution. In women this produces *Furor Uterinus* &c. The diseases are Dyspepsia gonorrhoea Consumption &c.

Different ^{States of Society} Situations as they influence health. I formerly mentioned the diseases of Society which are divided into the Savage. Barbarous & Civilized, all of which have their different diseases. As men advance in civilization, fevers diminish & nervous diseases take their place. —

x The Republican Govern^t has a gentle influence in acting as a Stimulus, & the frequency of Elections like Chimneys convey off the overflowing passions like the foul air, smoke - The late Lord Chatham fainted after a Speech delivered by himself relative to the acknowledg^t of the American Independence. — A Good Physician must be a ^{republican}

* Christianity is truly salutary, & the Physician who rejects it, sh^d also reject the principles of his profession. — Any doctrine of Christianity unfriendly to health sh^d be abolished

Different Governments. In Monarchical governments there is less sensibility than in republics; but in Republican there is a religion of some kind is as necessary to man as respiration & vice. * Different Religions. The doctrines of the Christian Religion, are more friendly to health than those of any other. *

Different Employments. Farmers are generally healthy. Carpenters are very long lived, because they labour in the open air. Fevers are more common to these two, & the scurvy to sailors. Rheumatism is common to Soldiers as well as to sailors. Coachmen are subject to disease, in consequence of waiting out in the cold for their masters. Weavers are particularly subject to disease as dyspepsia, Hypochondriasis hysterica, costiveness &c. The posture of Shoemakers & Tailors invites to disease. Bakers from their living in damp cellars & from their being exposed to the dust of flour are subject to pulmonary diseases. From accurate observation made in the City of London the average life of a baker was found to be 3 years. Smiths of every kind from their exposure to heat & cold are subject to inflammatory diseases &c. Studious men are subject to head ache, dyspepsia &c. Hence this last has been called Morbus Studiorum. Judges are subject to calculus from the long retention of their urine. Clergymen to Dyspepsia, Gravel & Consumption. Lawyers & Physicians are less subject to the diseases peculiar to the other classes of men, in consequence of their blending the exercises of the body & mind. Country Physi-

* Hunting is often a dangerous amusement ex-
posing to wet - hunger alternate Cold & Heat &
it brings on many diseases - Whenever the
Y. Fever has prevailed here ~~a~~ persons imprudent
enough to go a Hunting never escaped it

x Theatrical Amusements frequently generate ner-
vous diseases, as well for the great change in the
Atmosphere of public places, as for the Passions of the
mind being roused by Tragedies - There is impres-
sion without motion, there is no vent for the feelings,
they reanimate on us - fashion prevents our yielding
to their impulse. It is said they excite Charity &
Sympathy - on the contrary it makes us indiffer-
ent to the common distresses of Mankind - &
your fine Ladies who w^d weep at the sorrows of
a Jane Shore w^d turn ^{with haughty disdain} from her door a ragged
wretch who sh^d supplicate for charity

cians from their excessive riding are subject to Costiveness, piles, fistula in ano, Rheumatism, gravel &c. I refer you to Kama-Zani on diseases of different kinds of tradesmen.

Different Amusements are hurtful to the System, especially to women from their standing before a glass, or under the hands of a barber in a cold room previous to their going out on a visit. Improper change of dress. The air of crowded assemblies; dancing. I knew a person who died of a fit of Apoplexy when leading down in a country dance. Theatre produces numerous diseases. *

Peculiar Customs as productive of disease. There are a great number of diseases to which particular fashions & habits of men have given rise. The first of these sources is dramdrinking in the morning to act as an Antifogmatic. This practice arose from the use of Spirits in the morning for the cure of intermittents in low & marshy places. It creates a fondness for spirits throughout the whole day, & lays the foundation for drunkenness. 2^d The practice of drinking wine bitters before dinner. This is a dangerous practice. If the appetite be good it needs not an additional stimulus, & if otherwise the bitters creating one beyond the powers of digestion, will do harm by bringing on indirect debility.

3^d The custom of women receiving lying in visits. The female system is then in a very excitable state & by no means able to bear the stimuli of conversation. 4th The tolling of bells for

* Sore eyes, Cancer Gout &c - A Child very much
like his parents in the eyes & Forehead, will
very probably inherit the Parents disease -
* generally in the decline of life, between 60 & 70

the dead. This has a very bad tendency upon a sick person. 5th
 Chewing Tobacco; See my Essays

Diseases arising from unhealthy Ancestors. These are Congenial & hereditary. Of the first are many diseases as Measles, small Pox, Jaundice, Lues Venerea, Plague, Yellow Fever &c.

I Knapell says that in time of the plague at Aleppo many children were borne off with the plague which their parents had. —

2^d Hereditary diseases depend upon temperament & shape of ancestors. Consumption is more frequently derived from the father & Mania from the mother. It is remarkable that the Consumption seldom appears before 20 or 21 & madness not before the age at which it attacked the mother. th When the Parents have been afflicted with Gout half the intemperance will bring it on in the Children. Gout Hysteria, Hypochondriasis & Leprosy are all Hereditary diseases. Besides Congenial & Hereditary diseases there are family diseases as Epilepsy Palsy &c. There are many instances of diseases skipping one or two generations & then showing itself. You must not then confine yourself to the parents in searching for the source of diseases; but you will often have to go back several generations. A regard to the operations of medicines in Hereditary complaints is necessary. What was good in the same case in the ancestors; for there are family medicines as well as family diseases. This is of such consequence, that I wish

* Except where a Physician of Judgment corrects
in his practice their erroneous principles

^{Note}
* Opium in large doses produces all the symptoms
of Malignant fever

* while equally as many have died by taking
opium accord^g to Brown who says that al-
most all diseases are of the Asthenic kind
There is such a thing as truth in Med -

all those who have diseases communicable to children would likewise leave with them the remedies they had found useful.

Diseases arising from the improper use of Medicine. These have arisen chiefly from the injudicious confidence in false systems of medicines & wrong ideas in the operation of medicines. The false systems of Medicine from Hippocrates to Brown have slain their thousands* in the hands of weak Physicians. That Physician perhaps will have the most success in his practice who borrows a little from all the systems. Many hundreds have died in consequence of the publication of Dr. Linn on regimen, by living on diet so low as not to be sufficient to support life; from taking opium upon a supposition that it is a sedative according to Dr. Sullen*. From a confidence in the Asthenic diseases of Brown. But think not Gentlemen that I do not hold out for a theory in medicine. There have been & are yet many false theories in medicine which have done much harm. But we ought no more to reject entirely the truth of theory in medicine, because of the different spurious ones; than we ought the true religion, because there are many false & injurious ones in the world. —

The injudicious confidence of the operations of nature is also a cause of many deaths. This injudicious confidence is just as absurd as to believe in Witchcraft or Animal Electricity. —

1840

1841

1842

1843

1844

1845

1846

1847

1848

1849

1850

1851

1852

1853

1854

1855

1856

1857

1858

1859

1860

1861

1862

1863

1864

1865

1866

1867

1868

1869

1870

1871

1872

1873

1874

1875

1876

1877

1878

1879

1880

1881

1882

1883

1884

1885

1886

1887

1888

1889

1890

1891

1892

1893

1894

1895

1896

1897

1898

1899

1900

One grand Argument in favour of the operations of Nature is that she is the only Physician of the Brute creation; but this proves too much. Brutes seldom recover from a slight disease, such as we could cure in many by the application of a few simple remedies. But in this enlightened age, Nature seems to be the Pagoda of many Physicians. If the regular bred Physicians have done harm by the means just mentioned how much more must have been done by the

Quacks & Mountebanks. I once saw a dialogue between a Sword & a Hum Hothead disputing which had done the most in destroying man. Had a representative from the quacks stepped forward he would have gained the palm with ease.

Diseases arising from the imprudent or habitual use of medicines with or without the advice of a Physician.—

1st Purges These when given too often dispose to constipation & thereby call oftener for their exhibition. Different kinds of purges do injury to different parts of the system. Aloes dispose to Piles, but castor pills dispose to Vertigo & Palsy &c. Clysters Salls to a debility of the intestines. Purges are often given to prevent eruptions &c; but abstinence from animal food would be much the best. —

2^d Emetics. The habitual use of these produces dyspepsia — also other complaints of the Stomach, & by that means affects the general system; they produce ruptures of all kinds. —

x James' Powder packed & purged to death Goldsmith
& Howard

3^o Bitters induce indirect debility, dyspepsia, ^{Palsy} & dispose to
drunkenness &c. Exercise is the best of all tonics with a well
regulated diet. —

4th Nitre has produced Dyspepsia, a disposition to Colic &c —

5th C. used in the Spring without disease induces plethora Apoplexy &c Abstinence in the Spring is much to be preferred. —

6th Sudorifics habitually used injure the System. —

7th The imprudent use of the warm or Cold Bath disposes
to many diseases, but when the warm bath is used in the predisposing
or forming state of Fevers, it is an excellent & valuable remedy. —

8th Pediluvium when indiscriminately used so often does harm
as good; in predisposition to disease it has been of immense service;
but when morbid excitement prevails, it produces ^{evil} delirium & increases
every symptom of the disease. A Pint of wine will do as little harm
when the disease is formed as Pediluvium. —

9th Diets & Drinks suggested only by false theories of medicine produce many diseases. —

10th Exercise in excess is hurtful especially in fevers. —

11th Quack medicines of all kinds have swelled the bills of mortality. Thus Godfrey's Cordial has destroyed many children. I have seen it once destroy a child in this City Turlington's balsam has produced inflammation in the bowels & even death. Even the so much famed Portland Powder has done considerable mischief. — x

*⁷⁴² The Camp meeting convulsions seem to be propagated throughout the Camp by sympathy & the imitative principle. —

* I have seen 3 drops of Laud produce Colic & strangury - This is the case with many medicines in particular persons

But sometimes medicines produce mischief in the end when they appear to do neither harm or good in the beginning, & that too in the hands of Judicious Physicians. [†] This arises from a peculiar Idiosyncrasy in certain constitutions; hence gentlemen you may see the impropriety of blaming your brethren in medicine too suddenly.—

Sympathy & Antipathy, as inducing disease.—

This Gent. is a difficult subject. That sympathy should exist in minds is easily imagined; but that it should exist between bodies is not easily imagined. The diseases of Sympathy, in bodies seem accountable for upon the consideration that man is an imitative animal. This principle of imitation, is a deep seated principle in the minds of most of the human race. It is to this that I refer yawning & gaping w^h are so infectious in large assemblies. To this likewise I refer the sore eyes which sometimes arise from viewing those that are sore. Even convulsions have been communicated by sympathy, also stuttering, The jerks as they are called &c. [†]

But how shall we account for that intuitive evidence w^h some people discover in finding out events to which they are entire strangers as to any external cause. Dr Johnson says that Lord Roscommon when a boy at school in France was suddenly when at play impressed with the idea that his father was dead who was then at the distance of more than 300 miles from him. True it was his

* All these people are rendered liable to disease from their Antipathy which other people are & exempted from. For instance a person having an Antipathy to a cat will be excessively agitated & perhaps made sick by being confined in the same place with one, but this would have no effect on an ordinary person. I knew an instance of this same kind of Antipathy in one of the bravest men in the American Army, yet the sight of a Cat w^d drive him from the head of the Regiment. He died with this Katphobia.

note All associations are the effect of visible or invisible motions

The Associations of motions exist in the body 1st By Association of Ideas - 2^o Without this aid

father died at the time in which the idea struck him. —

Antipathy, is often congenial & acquired. Some men are born with an antipathy to water; as Peter the Great: while King James^{6th} was born with an antipathy to a sword. Others to cats, dogs, rats &c. I once heard of a man who could even tell when there was a cat in the room, without seeing or hearing it. This must be owing to certain effluvia of the animal he ^{2^d for Association} hated. — *

Diseases arising from the Association of Ideas & Motion.

Of the former it is well worth attending to. There is scarcely a disease in which this association is not present. Of the latter they are numerous. 1st If a man accustom himself to make water just before going to bed, he will be sensibly affected by omitting it once. 2^d A lady who took snuff profusely, was at last taken with the Palsy & became incapable of raising her hand to her face, which she could very easily do when Sal Cornu Cere was applied to her nose. There 2 facts are sufficient to prove the power of the association of Motion. It is by this association of motion I account for the periodical returns of paroxysms in intermittents &c. That it is so, is proved by these paroxysms being prevented by exciting a new action or mode of association in the system. Thus riding on horseback, cures intermittents by breaking the chain of association; Salivation & travelling has had the same effects in Epilepsy

* I never knew a man live to be old who
was subject to Stomach Complacids, We sh^d
never eat what disagrees with our Stomach.
It is the convenience of the body

Europeans by coming here after they are 40
generally add several years to their lives
o It is computed that 78 out of 1000 die of old age.

Diseases from Accidents. I once saw a case of Hydrocephalus Internus brought on by a stroke of a hammer on the Head. 18 months previous to it. And another of a pain over the eye in a man who had been frequently raised by the Head when a child. A. M. Campbell was taken Maniacal at 23 from the kick of a horse which he rec^d at 15. You see here that we have to go back, days, months, & even years for the remote causes of disease. See Bell's Surgery for diseases of this kind. —

Diseases of Time or Old Age. See my Enquirer. I shall however mention such facts as have occurred to me since their publication. 1st The State of the Stomach greatly influences Longevity. The signs of a healthy stomach are 1st an Appetite & an ignorance that we have one. 2nd That we hear no more of the Food after we swallow it. i.e. no signs of flatulency heart burn &c. —

2nd Migration influences the approach of death. Old persons frequently prolong their lives by migrating from one country to another situated in a more southern latitude. — #

3rd However long some people live few of them die of old age. ①

4th It is computed that only 10 out of 100 reach 60 years. —

5th More women live to be old than men but more men to be very old than women.

Predisposing Causes of Disease. These are either natural or artificial. The natural occur in different ages & conditions

* One half of the Children born die before the age of Puberty, more die in warm, than in cold countries; more among the poor than among people in easy circumstances. More boys die than Girls -

Hemorrhages & most of these diseases may be prevented by V. S. Purging & low diet -

of the system; as

1st Infancy. These arise from the disproportion of the head & consequently the greater determination of blood to that part. Hence eruptions behind the ears, tinea capitis, apoplexy, Hydrocephalus &c. Infants have also less sensibility but more irritability than adults; hence they are more disposed to convulsive diseases of the bowels, stomach &c. Dentition not only produces painful & swelled gums, convulsions, fretfulness &c. but I have seen it produce swellings of the inguinal glands & gonorrhoea. Worms, tenderness of the skin papsious &c all become the source of disease in infants. It is computed that half the infants die under 7 but more certainly 10.

2^d Childhood & Puerility — The diseases of infancy are nearly applicable here, irritability still predominates over sensibility. &

3^d Puberty. In this sensibility begins to get the upper hand of irritability. Here febrile diseases of an inflammatory nature begin to take place; as Phthisis Catarrh, dyspepsia, Hypochondriasis &c. #

4th Adolescence or Manhood takes place at 18 & continues till 36. The diseases of this age arise from a determination of blood to the organs of generation. They are diseases of the stomach, dyspepsia, Lues Venerea Hypochondriasis pain in the limbs & joints, swelling in the neck & groin, giddiness in the head; and those which arise from the exercise of the venereal appetite. From the 36th to the

* This disposes to many diseases
x The excitability of the whole body seems ab-
sorbed by the arteries. —

to the 46th year of our life the venous plethora prevails over the arterial. From 40 to 57 there is better health more happiness & fewer deaths than at any other period. The excitability & excitement being equally proportioned to each other. But old age soon comes on. The menses in women now cease.† As soon as man begins to use spectacles, he may be said to have put on a part of his shroud, & when he rises in the night to discharge his urine, he may then be said to have advanced the first step to his grave. From 57 to 63 the system is predisposed to Colic vertigo & apoplexy. From 63 the system gradually decays. It is then that a second childhood is produced, & here again excitability predominates, thus a man who at 40 would drink his bottle of Madeira, would when at 60 or 70 be intoxicated with 3 or 4 glasses. It is at this period that the grasshopper becomes a burden. They are more disturbed at trivial incidents, & are more sensible of the changes of heat & cold. After this as the body advances to 80 or 90 the sensibility of the nervous system decreases & the excitability of the arterial system increases, & the body is very liable to inflammatory complaints. † Dr. Boerhaave & Franklin died of an acute inflammatory disease between 80 & 90. The fluids of old people become acrid by age; as the tears, urine, gastric juice, mucus of the nose &c. Hence trifling sores often terminate in cancers at this time of life. & bruises end in mortification. Here muscular weak.

*Ceteris Paribus — a greater proportion of single
men & women die in a given time than married

+ Celibacy is more injurious to health than married life

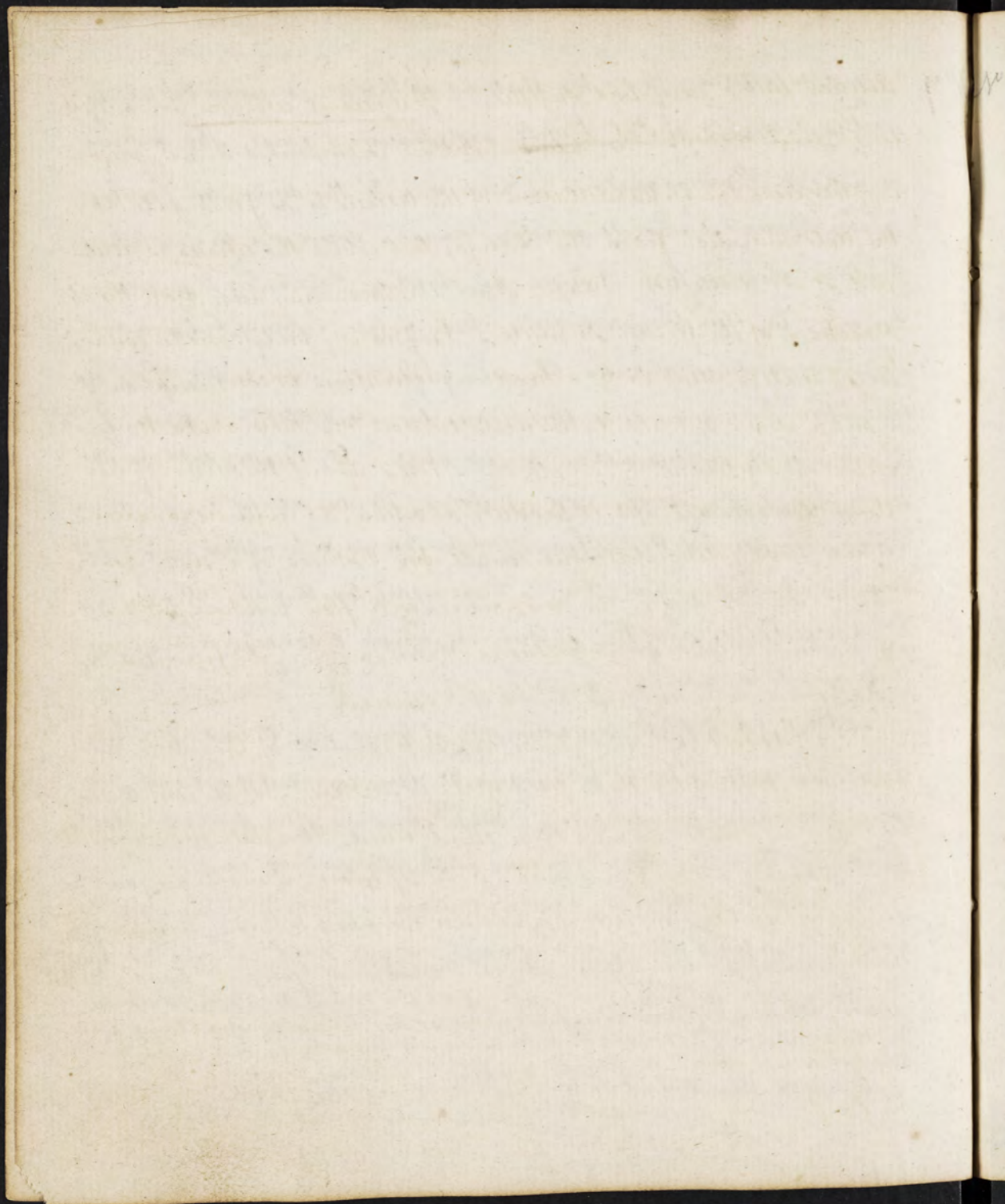
ness also attends. Hence the shaking of the knees, head & hands.

The diseases of old people are chronic & acute. The former attacks 1st The blood vessels 2nd Nervous. 3rd The muscular system. 4th The Brain 5th The Alimentary Canal. Some old people take a pride in shewing their strength by standing & exposing themselves to cold: by this they not only often suffer sickness but even death. Few people die of old age, they are frequently said to die of old age but when this is the case they leave the world without pain, & death is nothing more than sound sleep. Dr Priestly told me that his father died of extreme old age alone. He was sitting in his arm chair surrounded by his family & the last words he uttered were "that he felt no pain whatever, & with these words breathed his last. —

Conditions of the system in single & married life as pre-disposing to disease. — x

Married people are generally of longer life than single. Single people are more subject to hysteria. & Women are disposed to disease from disappointments in love. Men are often diseased after marrying but this is not the case with women. —

Barrenness is often a source of disease. I once knew a barren lady who upon seeing a pregnant beggar said "I would be that woman with all her rags if at the same time I could be with child." Bachelors live a Hypochondriac life. It has been said that a bachelor's life is a good breakfast, tolerable



dinner but a very bad supper. Pregnant women are subject to acute diseases. The Consumption is suspended during pregnancy; because the inflammation of the uterus is so great as to take the determination from the Lungs; but when the uterus is relieved of its distention, many other diseases may arise from the abstraction of its former stimuli. Pregnancy predisposes to costiveness, vertigo mania &c. Suckling children to consumption & a suppression of milk to Cancers, tumors &c. There would be few cancerous uteri if B.F. were more used about this time of life. Some diseases are apt to produce abortion, as influenza even when moderate: while the small pox & others of a more powerful nature do not. The menses cease to flow between 45 & 50 then the system becomes plethoric & disease may be prevented by occasional B.F. purging low diet & exercise. —

Deformity in size, or the configuration of the whole or any particular part of the body predispose to disease. People uncommonly large or small are apt to be short lived. Very tall men according to Dr Darwin seldom live over 25 or 27 years. Dwarfs are generally short lived. The following is an exception to this. The dwarf that was brought from Germany in the time of George 1st lived 80 years. Those who grow very fat before 40 are generally short lived. Large heads & short necks dispose to apoplexy. Narrow chests to diseases of the Lungs. Montaigne says that deformity of particular parts dispose

* One disease badly cured disposes to another thus
Pneumonia badly cured disposes to Consumption
Intermittents to Jaundice Dropsy &c &c
I must not conclude this subject without taking
some notice of the causes & Phenomena of Death.

Death follows the absence of Stimuli w^h support life - These stimuli losing their effect by repetition, the excitement being smothered as it were by the excessive force of impressions &c. Morbid excitement just before death ^{fixes} in succession on different parts of the body. Falling upon the brain it elevates the Genius above its ordinary exercises gives occasionally more talents, as a talent for Poetry Music &c. re^uscitates dormant impressions so that a language long since forgotten is spoken again. - Transferred to the Trachea & Glottis Morbid excitement just before death produces a very strong voice, the rattle &c. Transferred to the Stomach, a wonderful appetite is excited just at the approach of death. To the Muscles it produces rigidity in them & convulsions. To the Penis producing Priapism - To the Arteries producing activity of the Pulse to the last. - Morb. Exc. just before Death whether fixed, diffused, or flying is frequently attended with great pain, which pain is constant or attended with Intermittions. Death from old age is never painful. Sometimes at death Morbid excitement becomes stationary at the point of pleasure & the person feels pleasure while dying. Death is often attended with great fear of futurity, but sometimes ^{even} Delirium, & a perversion of the Moral faculties in pious persons ^{even}

to an increase of the Venereal Appetite. Women suffer less from deformity than men. Congenital weakness of a part or of all the body dispose to disease. The present King of England is only a 7 months child; but in consequence of his temperance has reigned many years. * Of all the Parts of the Body the Stomach liver & Spleen are the most susceptible of disease. #

~~This Gentleman~~ finishes our Pathology; & I again repeat that there is but one disease, morbid excitement; but one Predisposing cause - debility; and but one exciting cause - an irritant. - #

even the most wicked are unconcerned about fatality. The coldness attending death generally begins in the toes & fingers but sometimes in the wrists. There have been many disputes about the Ultimum moriens. I am of opinion that this depends very much on the nature of the disease the persons die of. The stomach & Bowels generally retain their vitality for some time after death - tho' I am disposed to believe it continues for some time after the action of the Heart & respiration have ceased. Heat & colour often fluctuates in the body for 2 or 3 days after death - A yellowness of the skin often takes place at the moment of death. The pupils of the eyes become less. ^{X The Muscles generally Spasmodic} ~~are the~~ Ultimum moriens

• On the Senses, rendering them more acute. On the Fauces producing thirst - On the bowels producing Diarrhoea - On the Kidneys suppression, or an increase of urine - On the Lymphatics - hence the effusion or absorption of water in Dropsy just before death.

* Chemistry Mat: Medica Anatomy Physio-
logy &c are all valuable only because they
throw light upon the Practice of Physic & cure
of diseases. All these branches are necessary to
be understood by a Physician & also Surgeon &
Midwifery. Therapeutics, or the art of curing dis-
eases, formed upon a knowledge of their causes
I have uniformly considered as a Science -

Medicine has improved in proportion as it
has become a Science & recieved aid from other
auxillary sciences. I shall not give you a par-
ticular History of Medicines & their doses, that
I leave to Dr Barton - I shall only give you a
general acctⁿ of the tools or Medicines you are to use
& the manner of using them

Therapeutics. —

Gentlemen

After having considered the remote, exciting & predisposing causes of disease, we proceed to Therapeutics, & view the system in a morbid state with the debility predisposing, & following disease. Therap. may be defined, the art of curing diseases. * founded on a knowledge of their causes

The first article in our Syllabus on Therapeutics is respecting the powers of nature in curing diseases. What is at present called the supposed powers of nature was the *Anima Medica* of Stahl.

The supposed powers of Nature arise entirely from Physical necessity.

1st There are however cases in which nature cures diseases, such as in Fevers causing a dislike for food; in Hemorrhages by causing faintness & consequently a collapse of the vessels, & in wounds by supplying new Cover & flesh. —

2^d There are cases in which nature is too weak & feeble to do service as in Malignant fevers.

3^d In others she is not proportioned to the disease as in Cholera Morbus

4th Entirely idle sometimes, as in Chronic Gout, Epilepsy, Mania, Cancer & Syphilis. —

5th Sometimes does mischief as in Dropsy & Consumption. —

6th Sometimes refuses her aid as in Aneurism & Scirrhus

[Faint handwritten notes or bleed-through from the reverse side]

7th Sometimes excites less pain than is proportioned to the disease as in Tetanus, & sometimes more as in Toothache & Whitlow. —

8th Nature is weak in the diseases of domestic animals for in these disease & death are very nearly connected, especially in Epidemics. —

I am not the first who opposed the operations of Nature in curing diseases. Sydenham & Meade were long ago opposed to the operations of nature. The efforts of Nature in the cure of Diarrhoea & Bleeding, bear no resemblance to the action of Opium & the Linctus, which are our sovereign remedies. Nature in Health is like a man in his senses, but in disease like a madman..

She may be compared in disease to a drunken man in a dark room who after finding the door, stumbles against it, breaks it down & ends his existence at the same time. In short when you are called to prescribe in acute diseases you should serve nature as a noisy cat or dog in a sick room, i.e. turn her out of doors. In the cure of diseases, however, the operations of nature may be attended to but not trusted. In Epidemics, if the bowels should be affected & show a tendency to carry off the disease by discharge this operation should be assisted by the operation of purges. If Rhonchus, from the nose attend the disease, Bloodletting will be proper. If boils or eruptions on the skin appear, substitute an artificial disease on the surface. If sweats accompany the disease sudorifics should be administered. Lastly

* Diarrhoea often sh^d not be cured

~~* Turn to the next page & see this Mark *~~

~~read down to —~~

if sore throat or a disposition to cough attend, mercury should be administered to expel the morbid matter. You see then Gentlemen that Physicians should be the Masters & not the servants of Nature as Hippocrates said. —

One outlet to a disease should not be solely depended upon altho' it may be sufficient in a few very mild diseases yet every avenue & outlet thro' which it might possibly escape sh^d be opened X

There are some diseases which should not be cured by art as eruptions on the heads of children. These sh^d not be cured unless some other mode be instituted to carry off the matter. —

The bloody piles in old people should not be cured, unless we substitute some vicarious discharge from the body. —

Intermittents succeeding ^{Madness or} Palsy, should not be cured. —

D^r Boon advised his Maniacal Patients to visit a marshy country, & thereby get the intermittent as a palliative of mania but V.J. in this case would have been much better. — *
melancholia &

Gout & Rheumatism succeeding Mania should be cherished. D^r Monro had a daughter that was twice taken with Mania upon the retrocession of a head ache. —

Old tetters or sores should not be cured up because Apoplexy or Palsy often succeed a sore thus cured unless some vicarious discharge be substituted. Death has been often brought on by curing sore legs in old people. —

* for it is rarely cured by it - I have seen death succeed tapping after a few days - besides the Lymphatics are sometimes roused into action, & ~~cure~~

Gonorrhoea sh^d not be cured when it has superseded other diseases of more violent action.

Pain becomes sometimes a necessary Stimulant for habit - Thus the extraction of a decayed, & painful tooth has produced a fatal chronic disease

© Remember the Old Polish proverb "What's one man's Meat is another man's Poison" We frequently lose & acquire new predispositions in the course of our lives. —

relieved

Aseiter should not be ~~used~~ by tapping after remaining a long time. *

Habitual Sweats from the Gut should not be stopped.

There are some cases in which pain should not be relieved -
 but ~~there~~ are very few. #

* In Epidemics we ought to pay particular attention to the Climate & all local circumstances, to the seasons of the year, heat & cold, dryness, & moisture. There are no successive epidemics perfectly alike in different years; consequently the practice should be suited to these different circumstances, & regulated by the National temperaments, habits, dress, customs &c. / Attention ought always to be paid to the country from whence the persons came. Intermittents when they attack a native of Ireland frequently require B.P. & seldom yield to the bark after he arrives in America, until the use of the Linctus; while in the natives of the Middle States intermittents generally yield to the bark alone. The particular desires & longings of the Patient should also be always attended to. In the time of the American Revolution, the soldiers of Eastern States were affected with Nostalgia while the Virginians longed for salt bread & corn pork. Appetites however singular should not be neglected; nor are the forms of Government or Religion. Individual temperaments, ^{& diseases} & habitual diseases or habitual remedies are not to be left out of Consideration. - C

In Chronic & hereditary diseases you should look back as far

* The diseases of Children are more successfully treated by emetics than those of Adults & they will bear larger doses of Calomel under den-
tition than at any other period of life

* The Habit diet & Medicines of our patients sh^d be enquired into. A diet of Vegetables will not answer to recruit a Convalescent "Bon vivant" who has been nurtured on Roast beef & plum pudding.
• Patients frequently deceive themselves with regard to their temperance - Case of a West Indian who laboured under some obstinate Chronic complaint upon being questioned about his mode of life, observed that he was very temperate. I asked him to explain what he meant by temperance - "Why" said he "when I dine at home I never exceed a bottle of wine, & when I dine out, w^h is only twice a week, I generally bring away my 3 bottles with me. -

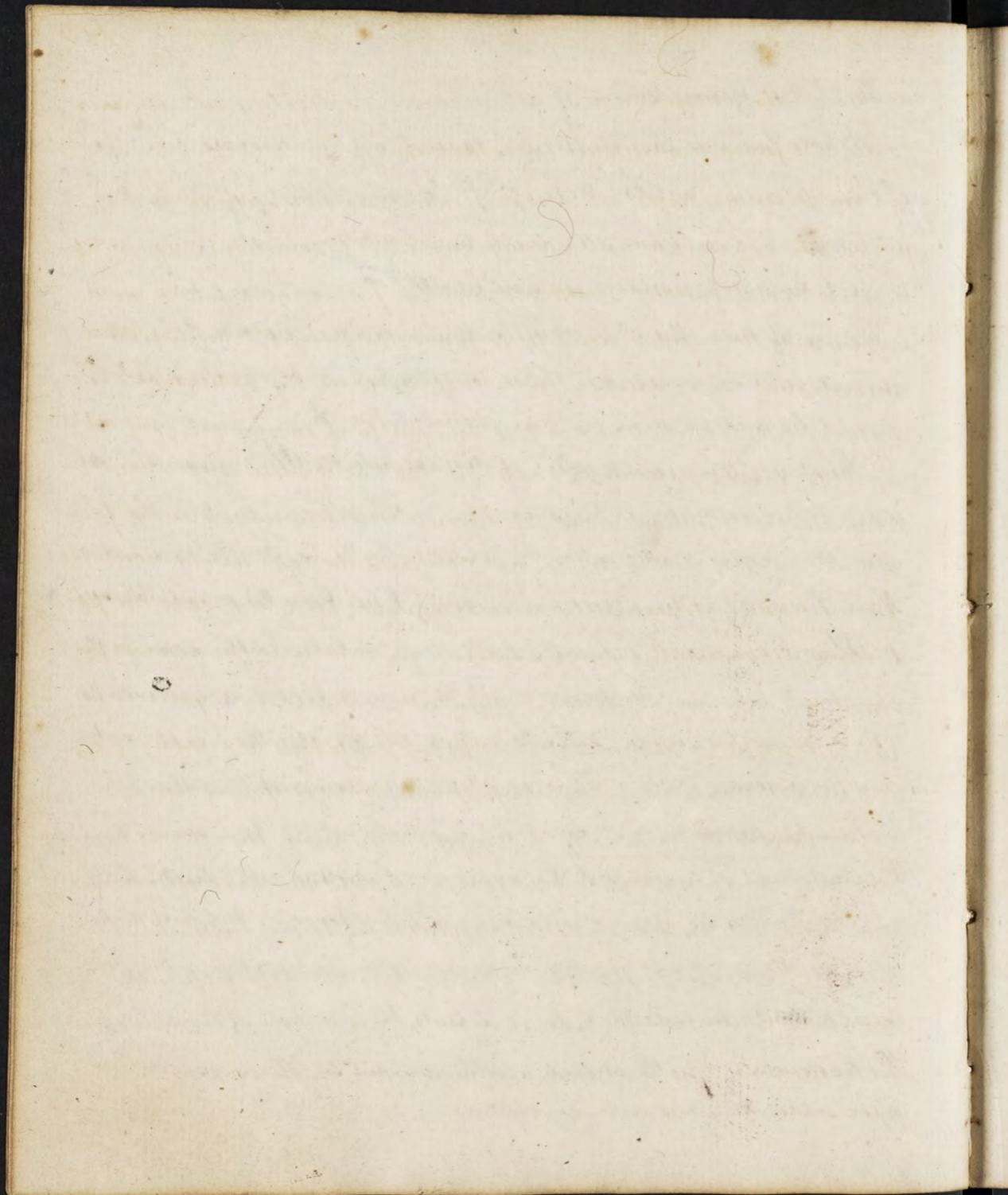
as the 2^d & 3^d Generations.

Whole families are sometimes carried off by diseases contracted by peculiar habits. Witness Dr Craig's family of Alexandria all whose children have died with Consumption, whilst both his wife & himself remain in good health.

The age of men, the state of their humoralial vessels & the Catamenia in women are not to be overlooked, also worms in children should be had in view in our prescriptions.

There are often recent causes of disease which Physicians sh^d. always have in view, as hard drinking, intemperance in eating, guilt, debt, love, envy mortification &c. which should be sought for from their friends, acquaintances or enemies, & not from the patient himself.*

Physicians must frequently look back months & even years for the causes of disease. The removal of the remote cause as Aesculap says (for these are his words "sublata causa tollitur effectus") will not cure the disease; For the Hydrocephalus internus of children & worms predispose is not cured by the removal of the worms. In the treatment of diseases, hope as far as consistent with truth and reason should be inspired into our patients; For it is the best vehicle of medicine; & the greatest circumspection is necessary that not even a doubt be expressed; for it defeats the intention of medicine. — The principles of Faith should also be attended to. Hence quacks so often succeed in the cure of diseases. —



The predisposing cause of all diseases is debility w^h appears to be a mechanical power in Medicine.

There are perhaps no diseases which do not appear to have alternate exacerbations & remissions, which sometimes require different & even opposite remedies. In the first case sedatives are necessary. In Remissions debility is frequently present & requires the administration of Cordials. In chronic diseases the patient sh^d. regularly take his medicine. It is frequently of very great importance to advise patients to continue the use of their medicines, even when they feel the least want of them. Debility which is the predisposing cause of disease is not confined to days, weeks nor to its forming state, it frequently succeeds disease; in which case the patient should continue the medicine which cured the disease for months & even years. Disease may be compared to a garrison the besiegers of which should never be idle, unless there be a certainty of bringing on a capitulation by starving the people contained therein.

The Choice of Medicines. Formerly they were thought to be valuable in proportion to their prices. I suppose that all diseases may be cured by few medicines; which by being better known will be more certain in their effects. An advantage frequently arises from concealing the names of medicines.

Respecting the Operations of Medicines two opinions have prevailed. One is that they act more certainly in a simple form

* It is of consequence to recollect the different effects
medicines on Adults & Children. for Sacch. Sat:
will cure Epilepsy in Children but not in Adults
~~They require their Confinement as well as treatment~~

* It may act in this case in one of these 2 ways
1 By a change of their Natures & the formation
of a Tertian Quind or 2 One of the Med. compo-
sing the Compound may excite the Stomach to
the point, in w^h the other can act. —

while others contend for the advantages arising from combination. These opinions appear to be reasonable. The Bark Opium &c are generally best when exhibited in a simple state. While sugar enables the Stomach to retain medicines which it would otherwise reject. In this case a weak pleasurable sensation overcomes a powerful disagreeable one. Bark & Valerian combined will cure certain headaches, ^{wh} but when sepearate ^{wh} avail nothing. * Opium & Alkali when combined will cure certain cases of Tetanus yet when sepearate avail nought. Dr Fordyce contends for the advantages arising from compound medicines, & says that Alum is a greater astringent when combined with rose water than when alone. Dr Hall also contends for the combinations of medicines, & says that some medicines are strangers & enemies to the system & should not be introduced into it without their guides or spies. Squills & Gum ammoniac when combined form a better pectoral than either of them sepearately. —

Tartarized antimony & Ipecacuanha form a better emetic than when sepearated. Capricum & pepper give no heat & pain in the Stomach as they do when sepearate. Neatness & Cleanliness should be greatly attended to in the preparations of our medicines. Writing the name of the Patient on the paper of medicine should always be done. Med: require their Condiments as well as aliments. — ✕

Drawing the mind from itself, or in other words drawing off

* It is our duty to attend to all the cases to which we are called, whether they seem to be desperate or not. In prescribing a doubtful remedy for a desperate disease we sh^d do well to imitate Dr Cullen who once requested a Clergyman to advise V^f when he was afraid to advise himself. ©

The best medicine that can be used is sometimes no medicine at all. Unfortunately the patient is constantly wishing to take medicine feed him up with bread pills or some other convenient articles on w^h he sh^d be encouraged to place confidence.

© A medicine sh^d never be laid aside until ~~it is of course~~ all the different preparations have been tried. Opium will frequently lie on the Stomach when Laud will not. —

Med: are frequently rejected for association, hence the necessity of sometimes disguising our medicines, as the preparations of Mercury — # See above

the attention of the patient from his disease is very beneficial.

D^r Cadwallader was very successful by this practice. He once by reason of his great humour prevented a man from committing suicide. The tone of Conversation should be suited to the state of the mind. Hence smooth is sometimes beneficial and sometimes prejudicial. Mentioning high priced medicines to persons who are unable to purchase them should always be avoided. Physicians should never advise patients to make their wills; for they might as well pass sentence of death upon them; but they should always inform the friends of the patient concerning his danger, that they may be prepared. —

Concerning the operations of Medicines there is more fallacy in the opinions of Physicians than on any other point. D^r Fordyce says that the best effects of Antimony in fevers is to produce ~~to a~~ relaxation of the skin; whilst D^r Cullen thinks that Nausea is of the greatest advantage. Since we reject Empiricism, we must always prescribe for the symptoms of disease, & as consultations may be useful in some diseases as compound medicines, they sh^d. always be resorted to. —

1st As Iron sharpens iron so will the opinion of one Physician assist that of another. —

2nd Novelty of two or more Physicians may inspire hope & even confidence in the Patient. —

3rd Responsibility is divided between the consulting Physicians. —

* Remedies for preternatural excitement - gentle
Physic & in some instances b. s. # Debility when it
precedes disease - the remedies rest & gentle stim-
ulants - these sh^d vary accord^g to the seat of it
Debility when it falls upon the Blood vessels
requires different stimulus fr^m what it does
when it falls upon the Lymphatic system
x Prostration disorder debility. -

Cases in which a Consultation is necessary. 1st In doubtful cases. 2^d In dangerous tho' not doubtful. 3^d In uncommon cases 4th In desperate cases 5th When new medicines are supposed to be proper. 6th In cases where there will probably be an appeal to justice; for the life of a patient should not depend upon the testimony of any one man; or at least a Physician would not be willing to bear testimony alone, when the life of a human being depended on his opinion. In consultations choose Physicians whose principles are similar to your own. Two modes of practice tho' each may do good when separate, yet when combined always do harm.

We come now to the application of our Principles.

1st effect of impressions on healthy excitement is to elevate it up to 60 on our scale, & produce preternatural ^{excite-}ment. #

2^d Debility from action is produced by a longer application of impressions. The system is now at 40. If you abstract or add impressions the effect is the same viz debility. - #

3^d Depression, the system is now at 30, these states of the system are attended with accumulated excitability, if the impressions act suddenly.

4th Disease or morbid excitement is produced by a still longer application of impressions; but if these impressions act gradually both excitement & excitability are worn down & no disease is produced.

5th Oppression or suffocated excitement. The system is now at 20.

x & 3^d those w^h alleviate the Debility succeeding
disease as the Class of Tonics.

This ought to have been 201 or absorbed 7/81

6th Prostration. The excitability is now smothered & the system cannot react; new & different stimuli must now be used to rouse the latent excitability, which is enveloped as it were, & will not emit the motions of life. —

7th Disorder.

8th Death. —

When debility is suddenly induced, it is attended with accumulated excitability, & should be treated with low diet, rest & gentle medicine; but when debility is induced gradually we must gently stimulate. Elevation shews itself by Alacidity wakefulness & an increase of appetite. Depression is followed by a tendency to disease, sometimes, in this case depletion should be used; but when there appears to be no tendency to disease stimulants should be used. We must equalize excitement & divert it from vital parts by depletion or stimulants.

O Tonics

Medicines have been divided into Sedatives & Stimulants. —

The first class viz. sedatives act by abstracting & reducing morbid excitement. The second class viz. Stimulants act by equalizing excitement by creating a new action, by diverting it from parts more essential to life to those which are not so much so by rendering it natural. — & to diffuse it equally. X

Sedatives are divided into ¹direct & ²indirect. Those which act directly by lessening the stimulus & abstracting morbid excitement — are

* & skin dry - useful in Muscular diseases
And thus diminishing all the secretions

+ Fear may operate in curing Angultus by the abstracting of Morb: ex: from the Diaphragm

2 From Poultry

0 5 From eggs - 6 The less nourishing kinds of fow
& the different kinds of shell fish - 7 Vegetables

8 10 Mucilaginous Substances Gum Arab: - 11 Total Abstinence —

1st Bloodletting

2^o Cold applied either by air, water or ice when the system is above 96[°] *or 98[°] -*

3^o Fear. This induces morbid excitⁿ by abstracting the stimulus of courage: X

4th Abstinence. This is of different grades. 1st Refraining from fresh animal food. 2^o From salt meat. This is not so nourishing as fresh meat since so great a quantity of it cannot be eaten. 3^o From fish. 4^o From milk & saccharine matter. 5^o From liquid aliments of all kinds. 6^o Abstinence acts in 3 ways. 1st By lessening the fullness of the blood vessels. 2^o By abstracting the stimulus of food. 3^o By creating when great hunger is induced, a new action & thereby diminishing morbid excitement. The operation of abstinence is too slow in acute & is only to be trusted to in chronic cases; & in those cases of debility, where it increases excitability, & thereby leaves greater room for the action of Tonics. —

The three following facts with respect to abstinence sh^d not be forgotten. 1st The Indians abstain much from food previous to a battle; hence so few of their wounds prove fatal. 2^o Animals fasting sometime before their death are after death less predisposed to putrefaction. 3^o We always bear fatigue after a vegetable diet, or abstinence, better than when we eat plentifully of animal food. —

5th Rest abstracts the stimulus of Muscular Motion. —

6th Darkness abstracts the stimulus of Sight. —

7th Silence - the stimulus of Sound —

* Bowels mouth or skin

8 are deprived of their virtues in their first
passage thro' it

The abstraction of excitement should always be performed in a gradual manner; hence the saying "*Natura nihil fit per saltum*".

Here we will premise a few Propositions.—

1st I believe there is an action of specific Stimuli.

2^o That stimuli act on the whole System, thro' a particular medium. Here the Stomach^{*} is the great medium, thro which medicines act on the whole System, & it possesses the greatest sympathy of any other part of the Body. It may be compared to the regulator of a watch.

3^o There are Medicines which act on Sensibility as Camphor mustard &c. Some which act on irritability as digitalis &c & some which act on both, as Opium & Bark.—

4th There are medicines which enter the Blood. #

5th There are some which are deprived of their medicinal qualities by passing thro the body.—

6th That the different parts of the system are capable of receiving more than one stimulus, & even such as are of opposite force at the same time.

II Those Sedatives which act indirectly are such as open the bowels; these I shall divide into three classes, viz. 1st Laxant as crystals of tartar, Nitre, clyster, such as act only by their quantity, Castor oil, manna, vitriol with the different Salts &c. 2^o The Active as Rhubarb, Jalap Calomel &c & 3^o Drastic Purges as Gamboge scammony Aloes &c.— To these divisions fasting may be added.

* attended with great morbid action

They may act by carrying off the redundant
Chyle & preventing the formation of blood

© Cathartics are also proper when the Stomach
is irritated with bile —

In all febrile diseases when the pulse is above
par they are useful The lenient & active are most
proper here. —

In Dysentery & Diarrhoea in its recent state —
they act in 2 ways - 1st By evacuating the morbid
contents of the bowels 2^d By creating a new action

Cathartics are indicated -

- 1st By a distention of the bowels with feces for this N^o 1 sh^d be used
 - 2^d By complaints of the head for this N^o 1 namely the Cenicent
 - 3^d In congestion of any of the viscera, for this N^o 1.
 - 4th In all cases in which the bowels are unable to perform their functions. Here N^o 3 or drastic are necessary. -
 - 5th In all diseases of the ^{Liver Spleen &} contiguous viscera, for this N^o 1 or 2
 - 6th In all diseases of the skin for this N^o 1 or 2
 - 7th In dryness of the skin from the excitement of the capillary vessels, for this N^o 1 or 2 - In 4 Fever 93 they never failed to produce sweat
 - 8th In Plethora, for this N^o 2 #
 - 9th In all dropical effusions: they are proper by lessening the excitement, & producing absorption. for this N^o 2 or 3 -
 - 10th In obstructions of the Hemorrhoidal vessels; for this N^o 1
 - 11th In obstinate obstructions of the Bowels for this N^o 1, 2, or 3
- Here it will be proper to remark that purgatives in a smaller quantity will not operate after a larger quantity has been used, & that a greater quantity should be given to have the same effect, if previously the system has been habituated to the same medicines. As an alterative they should be given in small doses so as to produce an artificial Diarrhoea. When it is necessary to continue purges a great length of time they should be varied. No solid food should be taken during the operation of purges; & they are

* The follow^g Rules sh^d be observed —

1st The Drastic Purge act best by a Combination with the Laxative, as Senna with Mannia Jalap. Cream Tart —

2^d After large doses it have operated powerfully, the intestines are so irritable that small doses will act. —

Clysters are proper 1st In those cases where the Stomach rejects Purge. — 2^d Magnation of feces in the lower bowels — as in pregnant women for the pressure of the Uterus on the Rectum — They have been happily compared by Dr Rush to a short hand brush it removes the dirt from the lower part of the Chimney — While Purge like a Chimney-sweep scrape & sweep clean its whole extent —

not so certain in their operation if liquids be copiously given
The mild purgatives induce sweat more speedily than the
drastic*. Clysters act by their quantity & quality. #

Purgatives are forbidden in the following cases. -

1st In diseases of weak morbid excitement. 2nd In the Typhus
state of Fevers - 3rd In hemorrhages of the bowels 4th In the first
stage of Colica Pictonum. - 5th In diseases of the Lungs

Emetics. These are divided into four classes viz. the
prompt, mild, powerful & nauseating. -

1st Those which act promptly as tickling the throat with
a feather, putting the finger down the throat, warm water, white
vitriol &c

2nd Those which act feebly but certainly as Ipecacu: Squills

3rd Those acting forcibly on the stomach as Antem Tart:
Turbita Mineral &c

4th Those which act by Nauseating the stomach as digitalis
& tobacco which last may excite vomiting by being moist-
ened with Brandy & applied externally. -

Emetics are indicated.

1st In cases of swallowing large doses of opium & arsenic. In
these cases the first class should be used. I have prevented death
in two instances by these means. -

2nd In here the 2nd class should be used. -

3rd In discharging bile, mucus or indigestible matters from
the stomach. Here the 2nd class should be used

4th In a languid state of the stomach - Here the 2nd class sh.^d be used

5th In morbid diseases of the head in consequence of its sym-

* They act here by exciting the Absorbents

* Pul: Consump: Cynanche Trachealis -

By promoting sweats -

o Children require more powerful Emetics
than adults as their Stomachs are lined with
mucus - They are useful in Diarrhoea & some
cases of Dysentery

A In the commencement of inflammatory fevers in
Plethoric habits - always precede Emetics by the Lancet

B No drink whatever sh^d be given until nausea
comes on & then never more than a pint or a pint
or 2 - The less the quantity taken the more certain &
serviceable the Emetic - They sh^d be exhibited often
particularly in Malignant fevers & sore throat - to
be effectual they sometimes act by inducing
a new action -

pathering with the stomach. Here the 2^d or 3^d clasp ~~It~~ be used

6th In tumors in the remote parts of the body as Bubo's &c
Here the 2^d or 3^d clasp *

7th In dropical effusions Here the 2 or 3 clasp are proper

8th In an oppression of the Lungs as in Catarrh * 4th But
when the Lungs are affected with disease, They should not
be used. In the first the 2^d clasp is proper.

9th In dryness of the skin here the 2 or 3 clasp is proper #

10th In the forming state of malignant & contagious fever
2^d & 3^d clasp proper here. They act in 2 ways 1st by equalizing ex-
citement & 2^d by discharging the seeds of the disease. — Δ

11th They are more powerful & effectual in diseases of chil-
dren than in adults. — \odot

In the exhibition of Emetics, you must observe

1st to give them in divided doses, in order that they may not
operate too powerfully upon your patients; 2^d That as little wa-
ter be given as possible when we want a prompt effect; 3^d That
they operate more forcibly ^{& certainly} in the morning: The system be-
ing at that time predisposed to sickness. 4th Never to suf-
fer them to operate while the Patient is recumbent, because
by this means we prevent spasm. 5th That their operation is
checked by Laudanum or a spoonful of salt in a pint
of water. —

* Applied to the body by covering the head with
a blanket - These may be called External sweats

7th # These I call Stomach Sweats

x3 In highly inflammatory fevers

⊗ It is necessary to discriminate between the
Low & Slow fever. In the former it is the true
Typhus Emeticus are very injurious but in the
Slow or Typhoid they are beneficial

Emetics are Forbidden

1st In violent inflammations & congestions of the Head and Bowels 2nd In too feeble action of the system. 4th In advanced stages of Pregnancy 5th In ruptures of all kinds 6th In low chronic fevers & general debility succeeding acute diseases. — *

Diaphoretics Increase the discharge of the vitiated humours thro' the pores of the skin & act either directly or indirectly 1st Those which act directly on the skin are Pediluvia, Baths of warm water, vapour bath, clay of the heat of the body, & azote. 2nd Those which act indirectly & produce their effects by increasing the action of the Heart & arteries, are exercise to promote sweat, cold water, this acts in a twofold way. 1st By reducing the immediate action of the Capillaries to the sweating point 2nd By the reaction of the skin when it is below this point. —

Diaphoretics act on the Capillary vessels indirectly thro' the medium of the stomach. —

1st By nauseating as Antim: Tart &c 2nd Without nauseating as nitre, eupatorium, cold water &c. When the capillary vessels are above the sweating point. These last act on the skin

— By means of continuous sympathy. — Diaphoretics act 1st When the capillaries are above the sweating point; By diminishing the excitement directly. 2nd When they are below it, By increasing it either directly or indirectly. 3rd By their action being determined

X 5th Purges frequently prove Diaphoretic by reducing the System to the sweating point. —

* Mosely has advised their use in the Dysentery of Jamaica —

↳ In the forming state of some fevers. diluting drinks sh^d be given to assist their operation & the patient during its continuance sh^d be permitted occasionally to eat to support its strength.

to the surface of the body, as Dover's powder, vinegar ardent Spirits, eupatorium &c. 4th By the stimulus of distention, produced by warm liquids of every kind. Each of these methods are necessary & are often indicated. —

1st To discharge diseases from the blood. The miasmata exciting fever often attempt to escape thro' the pores of the skin. I have heard of a young man in whom the syphilis went off by the capillaries. The poison of animals also escapes sometimes from the blood thro' the skin, by means of diaphoretics. —

2^d They are indicated when the symptoms are so mild as not to require bloodletting.

3^d In Centrifugal diseases, as Rheumatism Gout &c when they affect the limbs. Here I take notice that diseases are called centrifugal when they affect the extremities, & centripetal when they affect the body, as Colic Dysentery &c. *

4th In dropsical swellings when the symptoms are below the sweating point.

5th In fevers in which there is a disposition to sweat; tho' excessive sweating is sometimes hurtful.

The following Rules sh^d be observed in the exhibition of Diaphoretics

1st Perspiration is most easily induced in bed. To excite it flannel should be worn next the skin, more perspiration will be induced in 9 hours in bed than in 15 out of bed. —

x A gentle moisture on the skin in Typhus fever or the Nador of the Ancients is favourable, but the Sudor is alarming - Sweats in the Hospital fever are generally fatal. —

* More successful among Children because obstruction in them is never durable - Plunging a Boy's hand in cold water when a sleep will frequently make him wet his bed - During the Ty. Fever persons in its forming state were remarked to make an unusual quantity Dr Rush supposes that Arcitis & Diabetes arise generally from affections of the Liver Diabetes is nothing but Arcitis thrown on the Kidneys —

2^o Subdivided meals Because the stomach being alternately full & empty is unfavourable to perspiration.

3^o Great attention is to be paid to the heat of the body because sweat cannot be induced with safety when the heat of the body is above 100 of Fahrenheit's Thermometer —

4th The temperature of the drinks should be warm when the heat of the system is below, & cold when it is above 100 of Fahrenheit.

5th Diaphoretics are to be regulated by the stage of the disease.

6th They should be suspended occasionally & used moderately lest exhaustion should take place. —

7th Care should be taken to have the linen & bed clothes of the patient often changed; because sweating is sometimes checked by a stiff shirt. —

8th It is common to give deluting drinks in cases of redundant fluids from redundant secretions. This practice is improper. But in cases of poison this ought to be done.

9th Guard against cold & avoid purging & blistering, when you prescribe diaphoretics, unless the urgency of the case require it. —

Diaphoretics are forbidden 1^o In highly inflammatory cases.

2^o In cases of weak morbid excitement. 3^o When they weaken without relieving. *

Diuretics are medicines which increase the urine & are

1st Cold air applied to the body when a little heated; going into a cellar climbing up stairs, hearing a stream of fluid running from a barrel, cold water applied to the body, abstinence, fear, onions applied to the pubes. ^{& Exercise} These I shall call external diuretics. *

* They are indicated where the Kidneys refuse to perform their office & where they are suffocated with morbid excitement. - In Dropsical swellings where the Morb: Action is not very violent Digitalis & Iron are serviceable. -

2^d Diluting drinks, such as melon seed tea, white carrot seed tea, parsley tea. Dr Caldwell cured a patient of dropsy with the parsley, ^{tea} after tapping had failed. This class I shall call diluents.

3^d Those which act on the Kidneys by sympathy with the Stomach, as Salt of Tartar & New: Salts, Veg: Alkali. &c *

Diuretics are forbidden in all cases where there is an inflammation of the Kidneys. — I in every case in w^h you w^d not bleed.

Purgatives are Evacuents & Revulsives. —

Evacuents act first By discharging fluids from parts contiguous to the Salivary Glands; such as tobacco angelica &c.

2^d By discharging fluids from the whole Body in the form of saliva such as Mercury. Arsenic Salt: &c. Mercury acts both as an evacuent & revulsive. It is one of the most powerful articles of the M. M. yet its operation is disagreeable & loathsome. It has been said that mercury is not only a loathsome, but also an unnatural remedie. But this is not the case, for mercury is the first remedy of Nature, if we admit that sore mouths & Aphthae are the first diseases of Children. Hence when children sleep much, the gossips say that they are sleeping for a sore mouth, & if examined at this time they will be found to have a fever. —

A determination to the mouth & Throat is frequently the disease of Children, or rather the attempt of Nature to cure a disease, as Scarlatina Anginosa Eryanthe Trachealis &c —

+ 1670 - 1671

// This is of much importance -

In adults spontaneous salivation sometimes accompanies fever & the small pox sometimes, & is generally a symptom of a favourable termination. Death frequently succeeds this useful & salutary remedy, if it be suddenly suppressed. If a cough & salivation attend patients with the Yellow fever they generally recover. Sydenham mentions a malignant fever in ~~1767 & 1771~~ being cured by a spontaneous salivation. A spontaneous salivation has cured suddenly a dysentery & Gout. A spitting has occurred in Maria Twar called by the old writers Sputatoria. It marks the favourable termination of autumnal fevers. It is therefore strange that it has not been used long ago in these cases, & that we do not always excite it when needful, that we so often excite it when not needful, & that we do not destroy life by it as nature does in Aphthae, Malignant sore throat &c.

The Auxillaries to excite salivation are 1st B. P. 2nd Low diet 3rd Emetics 4th Opium. This assists by inducing costiveness. 5th Cold Bath & ice applied to the head. Dr Armstrong of Philadelphia used the cold bath to assist the operation of Mercury. I have used that as well as other cold applications. Dr Bloomfield used the cold shower bath & the partial cold bath as auxillaries to Mercury in producing salivation. Dr Whistler tells us that mercury acts soonest in moist weather. 6th Mercury is greatly assisted in producing a salivation when combined with Gallap. —

* In obstructions of the viscera it is often proper
not to give Calomel in such doses as to produce
salivation directly, I have generally first made
the mouth sore, thus making it active as an
alterative —

X Washing the mouth with Cold water & Diarrhoea

In obstructions of the viscera it is often proper
not to give Calomel in such doses as to produce
salivation directly, I have generally first made
the mouth sore, thus making it active as an
alterative —

7th With Antimonial Powders. 8th With Frictions of Mercurial ointment. 9th Nitrated or Muriated Mercury to be tried with Friction, calomel & corrosive sublimate. When we wish to give mercury secretly, we may put calomel upon Bread & Butter, & let the patient eat it. It is not necessary in order to produce a resolution that a profuse salivation be induced, or even a Ptyalism & in some cases not even a soreness of the gums. —

For restraining a salivation V.S. Opium, Ruges, Blisters, oil & Corax held in the mouth. — X

In Philadelphia Mercury salivates 1 out of 4. In the W Indies 11 out of 12 in the Yellow Fever. This must be owing to less morbid action existing in the diseases of the W Indies than in Philadelphia.

A Salivation is indicated 1st In Malignant fevers & such other fevers as are not remedied by other means. 2nd In morbid action of the head, lungs, liver, spleen, kidneys, &c. 3rd In Diarrhoea & Dysentery 4th In Syphilis 5th In visceral obstructions 6th In old ulcers both external & internal which have resisted the power of other medicines 7th In convulsive diseases as Tetanus &c.

Salivation is forbidden 1st In highly excited states of Fever. 2nd In low exhausted states of Fever. 3rd In Children under 6 years old 4th In persons above 60. 5th In those having many decayed teeth 6th In diseases tending rapidly to a crisis. Mercury will never produce a gangrene, when the system is sufficiently

They are indicated in tooth ache ear ache &c
They sh^d not be used when there is a great deter-
mination of blood to the head - as their operation
will increase it -

* are such med: as increase the secretion from
the Trachea -

x Plasters act sometimes as expectorants from
inverse Sympathy

* This Class I retain Mrs' Custom There is no
Med: w^h has a specific action on the Uterus -
They act by the Stimulus imparted to the sys-
tem by their long continuance

* & 3^d Epispastics made of equal parts of Mustard
& Cantharides - Boiling water to produce the effect
sh^d be applied for 5 to 10 minutes -

reduced or after a salivation has taken place. It is to be regretted that mercury is such a loathsome medicine; but man first sinned with his mouth, & to his mouth must medicines be administered to remove ^{the effects of} that sin.

Emmen. These act by depleting from the nose & are of 2 kinds, 1st Those which deplete from the nose without producing sneezing, such as Sal ammoniac. Turbith Mineral & 2^d Those which deplete from the nose & produce sneezing as Tobacco &c. #

Expectorants are 1st Demulcents as Flaxseed Tea Horse radish & 2^d Emetics or Nauseating Medicines as Squills &c.

3^d Volatile alkali, salts, smoke of Tar, Green wax resin &c. ✕

Expectorants are indicated in Pneumony, Catarrh, Asthma, Phthisis Pulmonalis &c. Here the 2^d & 3^d class should be used. Also in weak morbid action of the Lungs, here the 3^d class is required.

Emmenagogues ^{* In suppressed menses attend to} ~~should be administered according to~~ the action of the system: In diseases of great morbid action ^{In} V should be used & ~~these~~ ^{these} ~~restrained from~~, but in diseases of weak morbid action chalybeate & exercise should be used. In this last case I have generally used steel; which I believe fails only when given improperly. Aloes & Madder are scarcely worthy of our notice as emmenagogues.

Blisters. These act 1st slowly as Cantharides & the bark of certain trees 2^d Suddenly as Boiling water. * They are indicated

* In suffocated excitement medicines sh^d be applied gradually, blood abstracted in but small quantity at a time - Cold water applied externally is always improper in the absence of heat. In suffocated excitement there is very little -

x In diseases of the head, breasts & joints.

In Malignant fevers when we are fearful of Gangrene Blisters sh^d be applied to the Thigh, Shoulders, head & neck, & not on the extremities -

The Typhoid pulse is that w^h demands the use of Blisters - When they are applied with a Pulse above Typhoid, Pus is discharged in stead of Serum - If below, no discharge at all, or purulent -

Gout & Pulm. Consumptⁿ have been suspended by a slight eruption on the skin. -

x where danger arises from fulness or Pressure on parts essential to life.

of great Morb: of

1st in general diseases, here the first class are to be used. 2nd In local congestions of the head bowels &c. here the 1st class. 3rd In sudden congestions - here the second class is to be preferred. - X

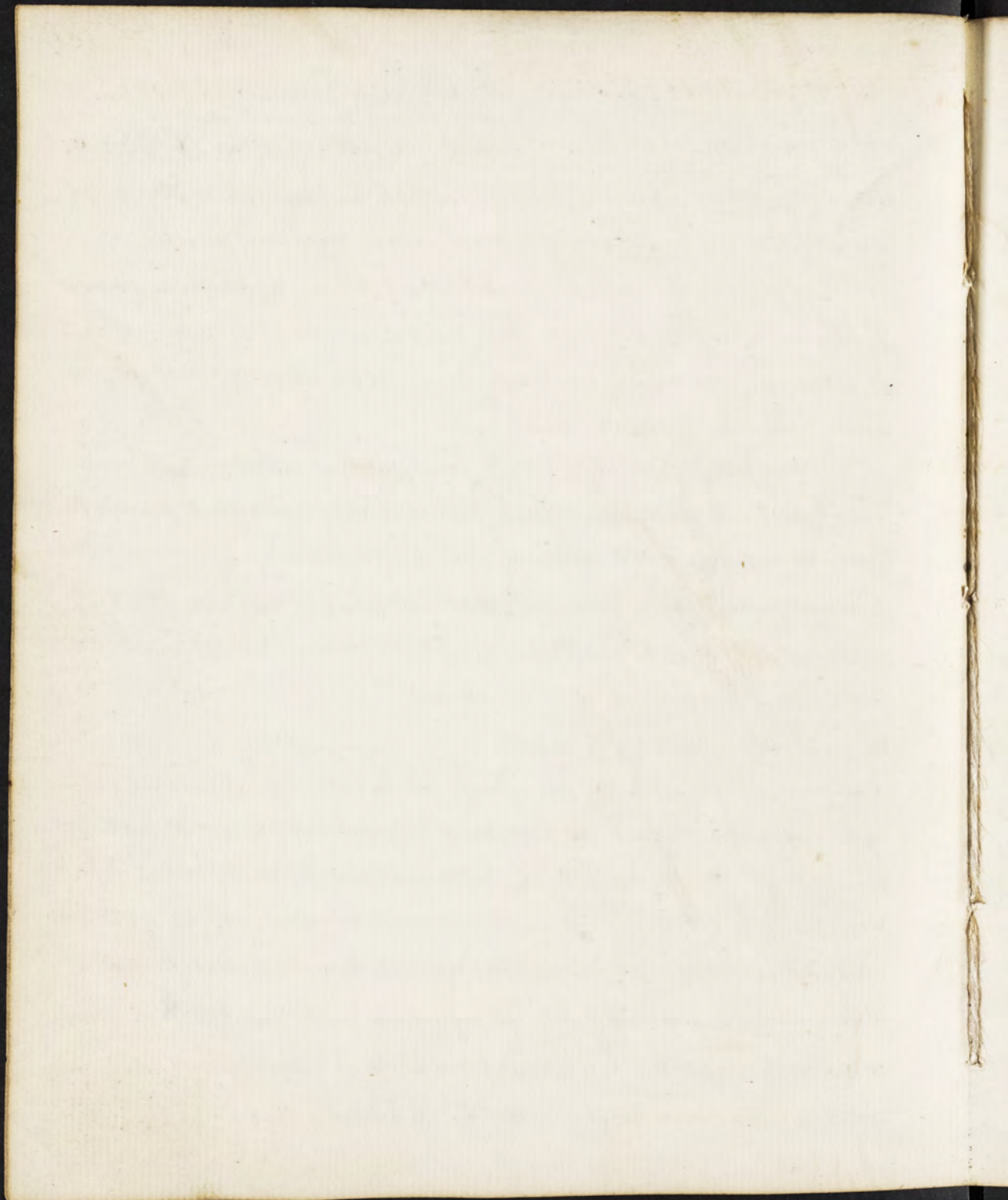
The following rules are to be observed in the use of blisters. -

- 1st They should remain on until they produce a serous discharge.
- 2nd When applied to the head they should remain 24 hours.
- 3rd Small blisters never discharge much after the second drying, new ones should be applied if necessary. -

Blisters are forbidden 1st In ^{general diseases of} great morbid excitement. 2nd In ^{very} weak morbid excitement. 3rd In habits highly irritable & persons liable to suffer from Stranguary. 4th In pregnancy. -

There appears to be a blistering point in morbid excitement, above or below which it is improper to blister, & this point must be discovered by the pulse.

Issues are medicines to lessen the quantity of fluids gradually, as setons, caustics, perpetual blisters &c. Issues are indicated first when the gradual abstraction of morbid excitement is required. 2nd In local congestions. 3rd in cutaneous eruptions of the face or parts necessary to motion. Issues act directly or indirectly by equalizing morbid excitement, & when the system has been habituated to their use they should be relinquished with caution. * I have thus mentioned the remedies for disease in an open & sensible form. We come next to the 2nd class. viz -



Stimulants. - These I shall divide into 1st Stimulants properly so called or those which remove morbid action by exciting a stronger & less diseased action in the affected part or in some other part of the body, 2^d which remove morbid action from one part of the body by exciting in another part less essential to life. 3^d and into Tonics or other medicines which prevent the recurrence of disease, by removing predisposing debility. Both of these act by converting excitability into excitement when they cure without abstracting any of the fluids of the body.

Wine & Opium are diffusible stimuli; but all stimuli are more or less diffused in their action on the whole system. Here I exclude those sedatives which destroy irritability or morbid action by force such as *escorbutica* *digitalis* and *niassa*, which resemble more the breaking down a door to get into a house than simply turning the key. But depletion should be used in most cases, in preference to such remedies: altho' depletion is certainly useful in hemorrhages yet sugar of Lead often does good after it fails. In this case the Lead acts by lessening the excitability. Consumption when cured by Opium & *digitalis* often returns. —

Stimuli to reduce great morbid action act as exercise & labour by reducing excitability; but in general they do great violence to the system & are much inferior to depleting remedies. They act more safely in muscular than in arterial diseases. Some

7 The class of Stimulants are numerous - see
Cullen's Catalogue. I shall only add a few
Recets for their use

* Dr Sydenham always preceded Stimu-
lants by evacuations as P. V. 4

diseases are however beyond the reach of depleting remedies, as Tetanus & the morbid grades of bilious fevers. Here the Opium & Bark cure by prostrating the system below morbid action & thereby wasting excitability. A Question now arises when are stimulants to be used? This must be regulated by the stage of the disease, the state of the System & more particularly by the pulse. When they occasion heat, a frequent & slow pulse they are improper. If they produce none of the above symptoms, but impart a fulness & slowness, they may be used with advantage, & the saying that there is a time for all things is in nothing so striking as in Medicine. — The Manner of giving stimuli is in rotation. I once cured a case of Tetanus by giving 1st Wine 2^d Bark 3^d Opium 4th Brandy & water & then the wine again; but more of this hereafter. —

Iⁿ Of those Medicines which remove morbid action by exciting a stronger & less diseased action in the affected or some other part of the Body. ^{Direct} Stimulants are of this class & ~~should be preceded by~~ ^{loose the Mus^{les} first or} reducing the system below their force by means of depletion. * But notwithstanding this may hold good as a general rule; yet there are ~~two~~ exceptions to it. 1st When it is necessary to destroy irritability in Hemorrhages by Sack: Lat: & in other cases by digitalis. 2^d When we dissipate excitability as in Tetanus. — 3^d When excitability is ^{greatly} accumulated begin with small

+ for. while large doses of Stimuli convert the excitability into excitement & the small doses will dissipate the remaining excitability without being of any service

* and after you have given all, revert back again
& And you will thereby be enabled to contend longer with the disease

6 In chronic diseases stimuli sh^d be intermitted frequently, to let the stomach regain its excitability?

doses of stimulating medicines I observe at the same time to defend the system from other stimuli, as light conversation & exercise &c For these by hurrying on the System will defeat the intention of the Medicine. In Pleurisy after bleeding once or twice endeavour to suspend the cough by Opium; But when there is no accumulation of excitability, ^{and system} begin with large doses of stimulating medicines, after depletion especially in chronic diseases It is the beginning of Jack Fever, which attacks excitability nearly exhausted by indirect debility.

4 Do not combine too many stimulating medicines; for they generally act best in a simple form; but to this there are ~~no~~ ^{are} exceptions Use them in succession or rotation; for the system will often become insensible to one stimulus; whilst another of weak action will affect it Liquid Laud: may be successful when Opium fails & N. V. Dr Dewitt tells us that a pill of opium ~~made~~ ^{old} 6 months before will sometimes do good, when a recent one does harm; it is probable that no two medicines even of the same class exert precisely the same effects; The Stomach will sometimes bear quassia & not Columbo & vice versa.⁶ Chronic diseases as intermittents &c require stimulants Frequently change the place to which stimuli are to be applied. When the Stomach has been injured to stimuli, apply them to the Skin ^{or to the lower limbs} which still retains its sensibility as blisters to the abdomen &c

* Generally when a medicine is exhibited
per Annum the dose sh^d be quadruple

* 8 When you have done with Specific Stimuli
prescribe such as may best agree with the excite-
ment which prevails - or is to be acted upon
We have said that there are Specific Stimuli

* This is explained by considering that there are different
grades of excitability - & that Stimuli must be accommodated
to the grade, that is - the Stimulus must Vibrate acit
were with the excitability of the System —

In chewing Tobacco only on one side of the mouth, that side is much less easily affected by the Tobacco than the other side which is unaccustomed to it. Even when snuff is taken into one nostril only at a time, it becomes at length more insensible to the effects of the Snuff than the other.

Opium when ineffectual in large doses in the stomach is frequently active when thrown into the intestines. -

Brack after becoming inert in the stomach is often active when injected into the Veins, or externally applied to the skin in the form of the quilted jacket. * Electricity when applied to the breast of a cock is said to revive, & cure the effects produced by it on the head. Opium obviates the effects of opium, when applied in another manner from the first. Mercury obviates the effects of Mercury, tho the practice be not safe. - *

^{say} Having admitted that there were specific stimuli we are obliged to admit an indefinite number of them, but those that are feeble from the various changes of the irritability of the system. An Emetic when the stomach has lost its ~~sensibi-~~lity is inert; because its muscular fibres do not vibrate in unison with the medicine. ~~Weak stimuli sometimes act when stronger fail.~~ Strong Purges destroy the contractile powers of the stomach; when weak ones act by assisting in the recovery of that power. † Once ~~knew~~ a lady who could not bear the

x firing a Musquet &c &c - this proves the Specific
Effect of Sound

X Parsley tea has cured a Dropsy now parsley is a
very feeble diuretic &c &c

x or equally essential but not worn down, see the
Laws of Sensation -

o By exciting a new disease in one part we
relieve it in another

o Morbid acts of the brain is relieved by m: st. being produced in the
mouth by Mure: - Wepper relates the case of a man being cured
of apoplexy by being flogged - on acct of his refusing to be bled -
This by inducing an ex: in the Trachea by crying &c that pain is
relieved in another part. Soldiers chew Bullets to relieve the pain
of a flogging - Houser takes notice of Soldiers wounded in Battle biting
the earth to relieve pain - hence the phrase "biting the dust"
In this manner we read of the wicked weeping & waiting &c this
is to relieve or obviate their pain

noise made by the firing of cannon; but could distinctly hear the noise made by ~~pushing a pin~~ ^{pushing a pin} ~~through a piece of paper~~. I also knew a gentleman with Hemiplegia, who was not the least affected by striking pins in the affected part; but by touching it lightly with a feather, would be immediately convulsed. *

¶ In all chronic cases stimulants should be given in the morning, because at this time the excitability is more accumulated.

10 Baron Humboldt says there is a certain relationship kept up between the different stimuli according as they are given in succession. Alkali for instance, will restore the excitability of the Stomach when dissipated by acids but acids will not restore it when dissipated by the alkalis. Do the alkalis act by exciting the dormant faculty of the stomach?

II^d of Medicines which remove morbid action in one part by exciting it in another less essential to life. * Many Physicians do this without knowing it. Thus a head ache is cured by a diaphoresis. Natural Hemorrhages by V.S. Morbid affections of the viscera ^{are relieved by exciting motion on the skin} by Bleeds. Dropsy, by diuretics acting on the kidneys. Morbid action of the Lungs, by Emetics acting on the stomach. * Apoplexy by a ^{transfusing} ~~transfusing~~ ~~on the back~~ ~~the morbid action being thus transferred~~. Harley tells us that he gave a dog Nux Vomica, & then severely whipped him, & the nux vomica had no effect, owing to the impression on the skin, pre =

In Consumption it is sometimes proper to create morbid action in the Brain by means of Opium. ^{Phisic} Here it is better to bring on derangement in the Brain w^h is more essential to life than the Cough, than to let disease be stationary in the Lungs, doing more irreparable mischief - Intoxication sometimes entirely removes Consumptⁿ -

* ~~When~~ ^{Goat} is flying about the body it is proper to stimulate the great toe w^h has already been attacked by it in preference to the others when we wish to induce regular Goat by soliciting it to the extremities -

Dr Darwin mentions the case of a Man who was always recruited when he felt fatigued by thinking of a person whom he hated -

6 In the translation of disease the skin & bowels sh^d be preferred to any other part, but we sh^d make this our rule to seek out the weakest part, & if no part is more debilitated than another create a weak part by friction

One disease may be cured by generating another thus Pregnancy sometimes cures Hysteria by the translation of excitement to the bloodvessels - Climbing a flight of stairs has cured drunkenness by the muscles of the lower limbs being preternaturally debilitated & the translation of excitement from the brain to them. Might

dominating in force over that of the stomach. Observe now that there is but one impression felt among those of unequal force, & that is the Strongest. ^{Relief} 1st You must reduce the morbid action below the stimulating point, ^{Effectively} that the medicine may at once predominate over the remaining morbid action. To observe again that there are exciting, depleting, blistering, & sweating points; which it is as necessary for the Physician to know, as that a man should know the signs, which discover a port. —

2^d Take care that the part in which you excite morbid action be less essential to life, than the part from which you intend to remove it. To this there are ^{some} exceptions; 1st In convulsive Epilepsy delirium has been induced by opium with advantage. 2^d Tetanus is often cured by drunkenness. 3^d In Pleurisy it is most effectual to put a blister on the affected part, & in fevers it is sometimes necessary to bring on hunger to such a degree as to endanger life, in order to accumulate excitability in the stomach —

3^d To prevent unsuccessful Practice enquire into the peculiarities of the patient, his habitual diseases &c but in dangerous diseases little attention is requisite to the effects of ^{habitual} Medicines

4th When the second morbid action which is excited, becomes languid, a third must be excited, because pain from habit becomes pleasurable.

5th Attend to association in diseases, *instance, we stimulate the

not excessive exercise be useful in the treatment of Mania

* Debility is constantly attended with considerable relaxation of the Blood vessels —

Altho debility is not a disease yet it is often worse than disease — Many people die of debility after the disease is removed

+ IInd Begin with small doses & gradually increase —

A much less quantity is necessary to remove debility than is necessary to cure disease. e.g.

When you w^d prescribe ℥j of bark for removing disease you sh^d give ℥ss for a tedious & or 6 times a day for obviating debility.

* Diet sh^d be first Vegetable next Animal or light broths next eggs, then oysters & wild meats afterwards meat boiled next roasted

feet in gout, because they are more predisposed to the disease. —

In stimulants I include the passions, such as anger & terror; but the agreeable passions most often cure diseases by preponderating over painful impressions. I knew a man who could relieve himself at pleasure from the pains of Rheumatism by Shaving. Pronouncing popular names, words, and events, sometimes relieve pain. Hope & faith have sometimes wonderful effects in curing diseases.

III^d Of Medicines which prevent the recurrence of diseases by removing predisposing & succeeding debility. There I shall call Tonics,* & the rules necessary to be observed in their exhibition are the following. —

1st ~~They are always to be exhibited in less doses than are sufficient to overcome the morbid action.~~ X

2^d In your choice of Tonics always prefer such as are durable in their operation as aliment, in the use of which observe the follow^g rules

1st Always prefer that which is agreeable to the taste & Stomach, & tho there sh^d be no appetite, still continue to give the aliment, for who would wait for an appetite to give medicines.

2^d Recommend to debilitated persons to eat 5 or 6 times a day & once or twice at night if sleepless, for the Stomach of a debilitated person is like a school boy, who if he be not busy is apt to be doing harm. A full meal however like poison sh^d be avoided. —

3^d Accommodate the diet to the excitability of the System. X

* When it is necessary to confine a Patient to a particular article of diet, we must not give it up too soon because it disagrees a little with the stomach at first, after a while it & the stomach may become naturalized to each other. —

1st Solid food should be preferred, as it makes the most flesh, while liquid food makes the most fat.

5th The less nourishing is preferable to that which is more so in cases of debility. Salt meat is preferable to fresh on this account.

6th There are cases in which only one kind of food is required. A Gentleman in this City affected with violent stomach complaints was perfectly cured by Boiled turnips alone. Boiled carrots are said to cure the asthma. Bread & Milk the Gout. A diet solely of fish has cured certain inflammatory diseases. The Stomach prefers a homogeneous food. — Beef & Mutton have cured dyspepsia, & oysters visceral obstructions. ✕

7th A diet by weight & measure of the same aliment cures diseases. Dr Taylor was cured of Epilepsy by the milk of a Cow fed in the summer on grass, & in the winter on Hay but was disordered as soon as he ate of the milk taken from a cow w^h was fed on grain.

8th Uniform Hours in eating are strictly necessary, the sooner after leaving bed in the morning the better.

III Tonics Comprehend 3 Kinds of Drinks, these are 1st Malt Liquors. 2^d Different wines as Madeira Sherry &c. 3^d Low wines as Malaga, Port, Champagne, &c. You see I do not include Ard^t spirits in this class for a man had better die than use this detestable Pneumonic remedy. In chronic

* Drinks are much more Stimulating Hot than Cold - hence the reason they sooner intoxicate

* From 110 to 100° of Fahrenheit constitutes the Hot Bath
100 to 96 the warm
96 - 85 the Tepid
85 - 65 the temperate
65 32 Cold

The hot bath is particularly adapted to the fluxious state of the System - useful in the Cure of Mamalgia
The cold bath sh^d never be used when the body is debilitated or covered with sweat - It sh^d not be continued too long, or it debilitates. In great torpor of the System as in Mamalgia ice applied to the head & hot water to the feet has equalized the excitement of the System -

© When the warm bath is used the patient may continue in for 10 minutes to 2 hours & half The warm bath may be made more Stimulating by the addition of Common Salt - & heat may be applied to the body thro' the medium of hot salt -

~ Exercise increases the action of the Lymphatics & muscular strength

cases they are always injurious, as their use will finally create a love for them, which when confirmed by habit nothing can eradicate. ✕

IV 4th Cold & Warm Baths remove debility, & diseases of weak morbid action. The warm bath sh^d be used between 12 & 1, 0-
Clock only. ^{acts as a direct stimulant} Temperature of the Tepid is 96, the warm 104 & the hot bath 108° of Fahrenheit. The warm bath is very much used in Italy. ©
The Cold bath acts indirectly as a Tonic, abstracting Heat & accumulating excitability; & ^{exercise} dripping after the use of the cold bath converts the excitability into excitement. ^{As 1st operation is Sedative} To be the more effectual it should be used after the warm bath.

I shall now make a few observations on the Cold.

1st It should be preceded by the warm. —

2nd It should be temperate, when the water is cold it should be warmed & vice versa. —

3rd It should be used 2, 3, or 4 times a day. —

4th In a warm room during the winter. —

5th Exercise & friction should succeed it. —

5th Exercise holds a great rank in the class of Tonics as obviating simple debility & may be divided into ¹passive & ²active.

1st The former includes friction, rocking in a cradle, chamber house, swinging, sailing &c. The latter are walking, labour, ^{Swinging, backing} & riding on horseback is partly active, & partly passive. — H

* The flesh brush made use of here may occasionally be impregnated with brine or Aet^r Spirits.

* They frequently hold their brushes over vapours of Myrrh previous to their application # It is remarkable that a Carried Cow will give more milk than one that has not been subject to the Curry Comb —

© Dr Rush emphatically terms exercise the Morality of the Mat. Med:

© Sailing in Balloons may be practised with safety. the gentle exercise & change of air together with the variety & conflict in the mind cannot fail to delight

The following are the rules to be observed in the use of exercise

- 1st In great debility, begin first with the passive as friction. The effects of which in overcoming debility are wonderful. ^x It increases the action of the Blood vessels & muscles, also secretion as well as sensation. [†] The Chinese are remarkably fond of this remedy & carry it so far as to have professed frictors as we have barbers. ^{*} The exercise of the hands as in shuttle cock, the good effects of this we see daily in Tailors Shoemakers Ladies & Swinging sailing & riding in a carriage, are the next stage of exercise as they occur in the open air. Swinging is useful when the patient is not able to take other exercise. It was recommended by Dr Hargrave & I Smith in consumption. I cured one case of this disease completely by swinging. Sailing creates a disease in the stomach & thereby carries off the seeds & effects of the primary disease. [†] ~~It also keeps up a perpetual conflict between the passions.~~ ^{of rage & fear} Tailors are generally healthy when the vessel is kept clear. The Gallies ~~only used formerly in time of war,~~ may yet come to be used in cases of debility. Partial exercise as before observed removes debility. A person held one hand in water at 62 and by exercising the other it rose to 68 after it had risen only to 64 by the warmth of the house. Riding on horse back is highly recommended in cases of Consumption. [†] It expends less excitability than walking; which may be used in cases where it

* It removes ^{the Patient} from the enquiries of friends after the health of the sick - which enquiries often do harm. I have known a return of an Intermittent induced by a friend asking the patient 7 hours after the usual return of the fever whether he had escaped it. —

Labour of the arms best in Pulm: Consump-

is necessary to expend much excitability "2^d Avoid all fatigue. 3^d Accommodate it to the state of debility. 4th The same rule may be observed in the use of exercise as in eating; never take so much at a meal as render you unable to take more; immediately afterwards without injury. Patients are often in this respect ungovernable. 5th Exercise should never be ^{used} prescribed before breakfast or immediately after a meal. Different kinds of exercise suit different diseases, as exercising the muscles of the back in Nephritis. # 6th ^{Habitual} Debility is to be removed by a change of occupation. 7th Travelling is an agreeable & useful stimulus from the exercise which attends it, the change of air & succession of new objects. * 8th Change of Climate & of former associations are useful in nervous diseases, as Hypochondriasis. Hysteria &c Epilepsy stone & even Convulsions, are cured by it. ~~Sheep are benefited by a change of climate, & men prolong their lives by the change especially old people when it is from a colder to a warmer one.~~ 9th A uniform climate for invalids tho' different from that they have been accustomed to, is of considerable service to them. In certain cases of debility, a warm room from 70 to 74 day & night should be used, & in order to keep the room from being too warm, vessel of water should be kept upon the stove which will evaporate at a certain degree of heat &

* They act as tonics by the ingredients they contain by the degree of temperature & from the quantity taken in at a time - Purging Mineral waters are not Tonics consequently I am not speaking of them here - Mineral waters cannot well be imitated by art - They often do harm at first but after a while much good

Light reading and Pleasant stories is beneficial to weakly people if not too long continued. They sh^d go to bed early & rise at the same hour - & rise every morning at the same hour, they sh^d sleep on their sides, & also on a Mattress - When their diseases are attended with cold, they sh^d sleep between blankets covering with Eider down is generally best for them as a covering of this kind communicates as much warmth as 5 times its weight of Blankets - Weakly persons had better be 3 degrees too warm than one too cold - They sh^d never expose themselves to the night air, & sh^d avoid venery.

X Sleep protracted to 12 hours has given the system time to recruit itself, & patients have recovered after their lives have been despaired of

thereby cool the air of the room by its vapour. 10th Change of diet, dress & mansion is frequently of great service. —

11th Cheerful company & agreeable ^{light} reading obviate debility. —

12th Advise convalescents to go to bed early at a fixed hour & to rise at the same hour every morning. —

13th Strictly forbid their going into the night air, or moist weather, or gratifying the venereal appetite. —

14th Accommodate their dress to the weather. Their dress had better be three degrees too hot than one too cold. It should be loose; there should be no ligatures; flannel should be worn next the skin, & they should sleep between blankets. —

15th They should sleep upon a mattress, as a soft bed induces indirect debility, & alternately on the sides but never on the back, in debility; because the night mare frequently attacks in that posture.

Of the Medicines which remove ^{simple} debility; of those the Bark & Steel are the best in direct debility. Strong drinks sometimes cures diseases by knocking out excitability, rousing dormant excitement & afterwards locking it up in the Muscles. — The Indians when fatigued, will rest themselves by carrying a large log sometimes a mile or two & then laying it aside. —

Mineral Waters ^{*} do great harm in diseases of increased arterial action; but in nervous, bowel complaints &c They are extremely useful. — ~~Rest~~ Rest is a natural tonic &

x Music has been esteemed a Tonic Milton P.
Boerhaave duly appreciated it as such —

*Accidents w^t have produced terror have renewed debility. —

x They sh^d not be given in too large doses

x Large doses of Narcotic medicines have overcome
debility w^t has refused to yield to all the tonic re-
medies in small doses. —

+
Sea air is also a stimulant & may be prescribed with the same precaution as the Mineral waters. —

Matrimony is also a powerful stimulus. —

Mercury in obstinate obstructions, from weak Flanguis action is one of our best remedies; even when the more agreeable fail. *
In the use of Tonics always attend to the state of the System — for debility is the next door neighbour ^{or threshold} to disease and sometimes even worse than disease. There is a debility, below a certain point where the patient is unable to walk, as in Syncope, Palsy, Apoplexy, in which excitability is highly accumulated, here gentle & weak stimuli are proper. A few drops of cold water, friction, smell of ~~a~~ Burnt Feathers &c will often do more service than the most violent medicines. Friction is generally better in Palsy than the more powerful Stimuli —

When excitability & excitement are ^{frustrated} nearly exhausted as occurs in the first stage of Malignant fevers & the last in the chronic diseases, the most powerful stimuli are necessary as caustic red hot iron, Boiling water, fire coal &c But when a total destruction of a part takes place, which in animal matter is called gangrene, the stimuli sh^d be applied around the part as turpentine hot poultices. Blisters &c with the internal use of Bark wine & Opium — X

485 By the Larynx —

x from the sensibility of the mouth, fauces & Stomach & their sympathy with the whole system

Tonics are exhibited 1st by the mouth 2^d By injection. 3^d By nose 4th Externally. The mouth is the best channel for medicine. Opium may be given by way of Clyster, in this way it is generally necessary to administer 3 times the quantity of that taken into the stomach to be as effectual. Spirits, camphor, volatile salts &c may be applied to the nose. Dr Chiloholm of Montpelier with camphire & opium applied externally, cured obstructed menses; with digitalis, dropsy; & with bark & spirits, all kinds of fevers. In this case I think the friction of the hand the principal means of cure. I have known Camphor & Opium dissolved in sweet oil to act like a charm in pains of the Knees, when applied externally to the part. Shoe makers wax & Burgundy pitch applied to the soles of the feet relieve head ache. Spirits to the abdomen relieve colic; sweet oil ^{has cured} architis; & when rubbed over the whole body has cured malignant fever; a warm hand has removed a pleuritic pain. The manner in which these medicines act is 1st by friction, 2^d By exciting a determination of the fluids to the part. 3^d By sympathy: Sometimes they all three combine. The parts to which these medicines may be applied, are the stomach, belly, inside of the thighs, near the perineum, soles of the feet, arm pits, back bone & anus.

There are some who have a susceptibility to one class of medicines ^{or particular ones: in a class.} in consequence of an Idiosyncrasy.

~ bile pus & Calcareous matter—

* For an acid in the stomach, Milk is excellent
acid. & morbid bile may be obtunded by nitro-
olic acid —

Of Medicines which remove diseases by abstracting redundant & foreign matters from the body, & which offend by their quantity or quality. These matters are mucus worms, &c. & the medicines, vomits, purges, diuretics, anthelmintics, deobstruents, & catagogues &c. of which we have spoken before. — *

Of Medicines which remove diseases by mixing with & thus destroying matters which offend by their quality. 1st Magnesia destroys acids in the stomach by uniting with & neutralizing them. 2^d Bilious & renal calculi, by lime water, vegetable alkali, vitriolic acid &c. 3^d The Itch is cured by sulphur & mercury; the venereal disease by mercury. Demulcents are used to allay cough & tank &c. They are flaxseed tea, decoction of Oenanthe, mallows sulphur mercury &c.

Of Medicines which cure disorders by removing obstructions. — These as I said before are not the cause but the effects of disease. They produce disease by reacting, & occur most frequently in the visceral & lymphatic glands; thus we see morbid debility, disease & obstructions at the same time. These medicines are certain Tonics called deobstruents, as Bark, steel, mercury, arsenic, cold Bath, external applications, local bleeding, fear acts powerfully & I think it is in this way that the royal touch acts. I will conclude this subject with observing that obstructions are the effects of acute or chronic inflammation, & where V.S. has been used in time they rarely occur. —

* The only two remedies worthy of Consideration under this head are oxygen gas & Carbonic acid gas taken into the Stomach. It exerts a manifest action on the Kidneys -

* Pain may be defined to be a tendency to a solution of continuity in a part

Unless so violent as to endanger life, as in Colic &c

© If sh^d be cautiously used, it appears to be better adapted to the relief of pain in cases of moderate action of the bloodvessels. When offensive to the Stomach it may be given by glyster. When quina fails, henbane, hops, Chamlock sh^d be tried.

© The System is here reduced to the Stricter state

5 Cold air is useful in in great Morbid ex: Thus relief is frequently found in thrusting a painful limb out of bed. - Ice is beneficial added to the water. It sh^d be continued a long time. ^{See next page *}
+ given as a Glyster in colic. It is a great Stimulant to the muscular fibre. It will excite the action of the heart out of the body, when irritating it with a needle will not -

Of Medicines which are supposed to cure diseases by changing the quality of the fluids or the texture of the solids. The only two remedies worthy of consideration under this head are Oxygen gas, & Carbonic acid gas taken into the Stomach. It exerts a manifest action on the Kidneys.

Medicines for relieving pain.

Pain may be defined to be a tendency to a solution of continuity in a part. As pain is the effect of disease, the remedies sh^d be accommodated to the state of the system. Pain is sometimes a remedy, & in this case it sh^d not be relieved, unless so violent as to endanger life, as in Colic &c

1st Of relieves pain, as in Pleurisy. Headaches, Gout, Rheumatism &c & where the Arterial excitement is general. — Cupping also relieves pain.

2^d Opium in large doses relieves pain by inducing indirect debility, & thus reducing the system to the sleeping point. In giving large doses, care sh^d be taken that the seat of pain be not in a part where effusions are dangerous as in the brain &c — It sh^d be cautiously used — it appears to be better adapted to the relief of pain in cases of moderate action of the blood vessels. When offensive to the stomach it sh^d be given by

[Faint, illegible handwriting throughout the page, likely bleed-through from the reverse side.]

Glyster. When opium fails, henbane, hops & hemlock sh^d be tried

III Fasting relieves pain. Dr Priestly informed me that a criminal who was put upon the torturing machine bore the pain with fortitude by fasting 7 or 8 days before. Those who die of famine never feel pain after the first 4 or 5 days, in consequence of losing their sensibility at that time the system is here reduced to the stricture state

IV Cold water eases pain when there is great morbid action. This was often experienced in the Ty Fever of 93. When given by way of injection it acts like a charm in hemorrhoids. - Ice is beneficial added to the water, it sh^d be continued a long time. Gentle effusion of water gives great ease in gout, but dashing it on the limb increases the pain. This verifies the acct of the rich man in the Gospel, who intreated a drop of water to quench his thirst. -

V Cold air is useful in great morbid excitement. Thus relief is frequently found in thrusting a painful limb out of bed

VI Warm water acts as an Anodyne in great morbid excitement given as a glyster in Colic. It is a great Stimulant to the muscular fibre - It will excite

* A Sheepskin or the maw of a cow on the stomachs of
Children frequently cures the Colic

* Horser frequently bete their cribs to relieve the pain of the
Colic

the action of the heart out of the body when irrita-
ting it with a needle will not

VII Demulcents as Poultices relieve pain

VIII Sweet oil applied to the body lessens the ac-
tion of the Pulse. The Ancient Romans relieved
Rheumatism by baths of warm oil x

IX Frictions of the hands - Lord Nelson in his
last moments frequently called out "rub rub"

x Fear chases away pain when accompanied
with great motion:

XI Cheerful company

XII Hallowing - Gnashing the teeth, & Crying
all mitigate pain. Women bear childbirth much bet-
ter by crying. It is evidently injurious to sup-
press our groans, however unmanly it may appear
to give vent to them. A French Marquis once died
by thus suppressing his feelings during a painful
operation - Homer describes the dying Soldiers
as biting the ground to ease the pain of their wounds

x
XIII Whipping relieves pain - Remember the case of
the dog that was whipped after taking a large dose of
Nux Vomica by Dr Hartley - He also gave another
dog Arsenic, & then flogged him, & he discovered no
symptom of pain from the Arsenic

XIV Pressure on the Abdomen relieves the tortures of the Colic. The Indians cure the Colic by standing on the belly of the sufferer for 10 or 15 minutes.

XV A Gentian this City removed the pain of the rheumatism by applying a hot iron near the affected part.

XVI Sounds relieve pain. I once heard of a man who was relieved of the pain of the Gout by making his servants sing very loud. It is in consequence of this that we seldom see many children cry at the same time. The child that cries the loudest generally silences the rest their pain being in a measure relieved.

XVII Employment both of body & mind. General Kosciuszko relieved himself of pain in Petersburg by turning himself around.

XVIII Small draughts of water when waist pain arises for great thirst. Dr. Fothergill obtained ease in inflammation of the bladder in this way. "Water" was almost the last cry of the suffering Lord Nelson.

XIX Battering the nerve leading to the affected part frequently relieves the tooth ache.

XX Fainting relieves pain by a revulsive action.

177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

XXI Sulphur when pressed between the fingers cures Muscular spasm mechanically. —

XXII Mustard gives more relief applied near than immediately on the affected part — This is explained by the affected part being preoccupied by morb. 24: Pains in the Stomach & Bowels are most effectually relieved by Sinapisms of Mustard to the Feet

Periodical Pains are best cured by the Bark or Apassotida accord^t as they affect the Arterial or Nervous system. —

XXIII The sight of a long absent friend has roused expiring nature, & performed cures after medicine has lost its effects. —

XXIV Resentment — The Indians bear torture heroically for resentment at the insults of their enemies. —

XXV Metallic or other sharp pointed instruments

XXVI Animal Electricity & Magnetism

These act by the Principle of faith — & by concentrating the mind to one object —

XXVII Counting a hundred backwards. —

Might not Surgical operations be rendered less painful by being performed gradually. The Sur-

1811. The first of the year was a very dry one, and the crops were much injured by the drought.

1812. The second year was also a dry one, and the crops were much injured by the drought.

1813. The third year was a very wet one, and the crops were much injured by the rain.

1814. The fourth year was a very dry one, and the crops were much injured by the drought.

1815. The fifth year was a very wet one, and the crops were much injured by the rain.

1816. The sixth year was a very dry one, and the crops were much injured by the drought.

1817. The seventh year was a very wet one, and the crops were much injured by the rain.

1818. The eighth year was a very dry one, and the crops were much injured by the drought.

1819. The ninth year was a very wet one, and the crops were much injured by the rain.

1820. The tenth year was a very dry one, and the crops were much injured by the drought.

geon might retract the Knife for a few moments & then proceed. Nature shows us the necessity of interruptions in pain, were this not the case what woman could support the pains of parturition?

What w^d be the effect prior to an operation, of rendering the system insensible by a large dose of Opium? — Drunkenness has rendered a woman insensible to the pains of Parturition. —

Means of obtaining Longevity.

This is not foreign to our subject — In life there is a constant tendency to death, & Longevity is only obtained by accommodating excitement to excitability.

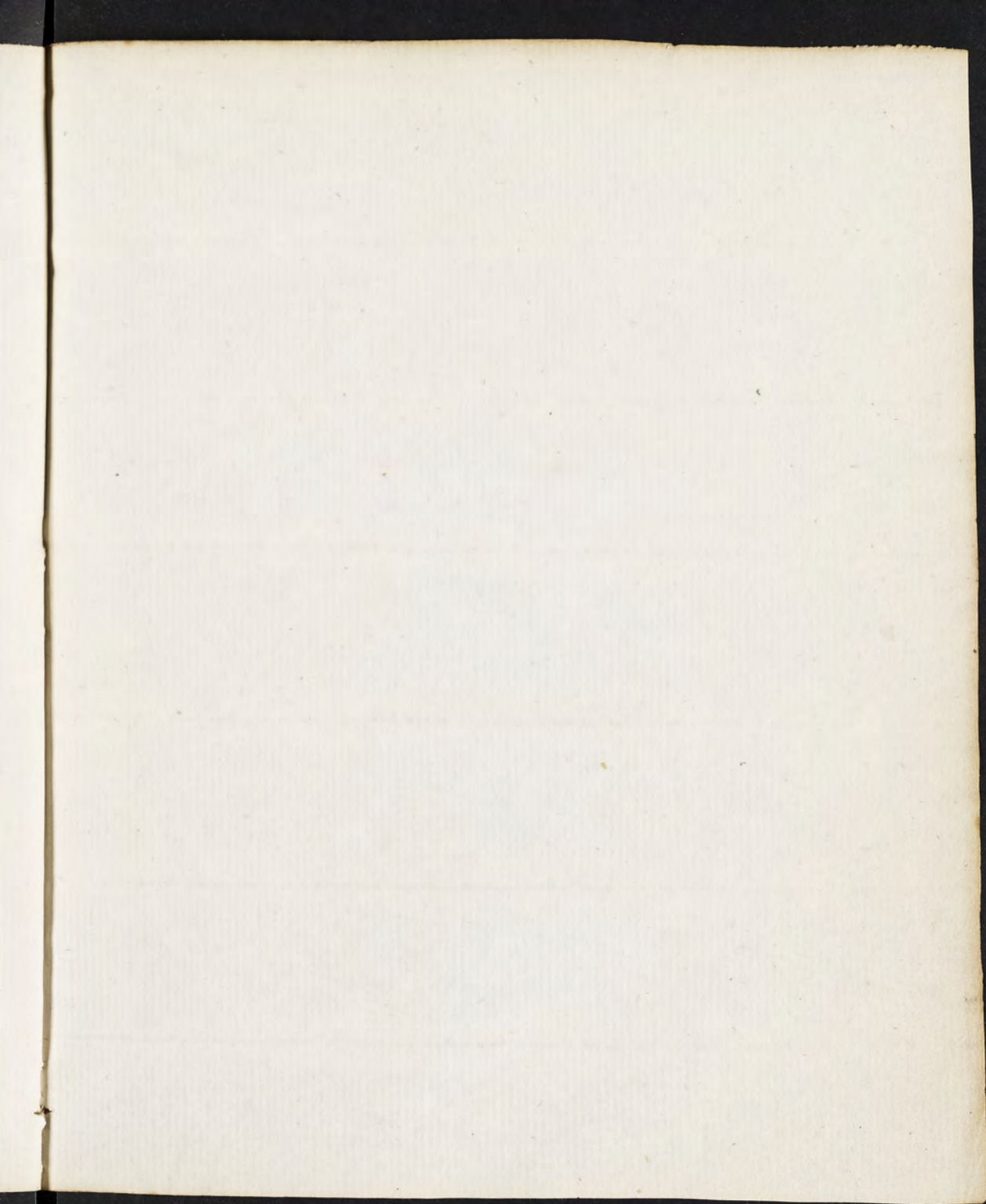
The same Rules w^t preserve life do not answer in all cases, but we are to be regulated by the different states of the system. Let clothing, diet, drinks, amusements, exercise, &c be accommodated to the different habits & states of the system as varied by age &c

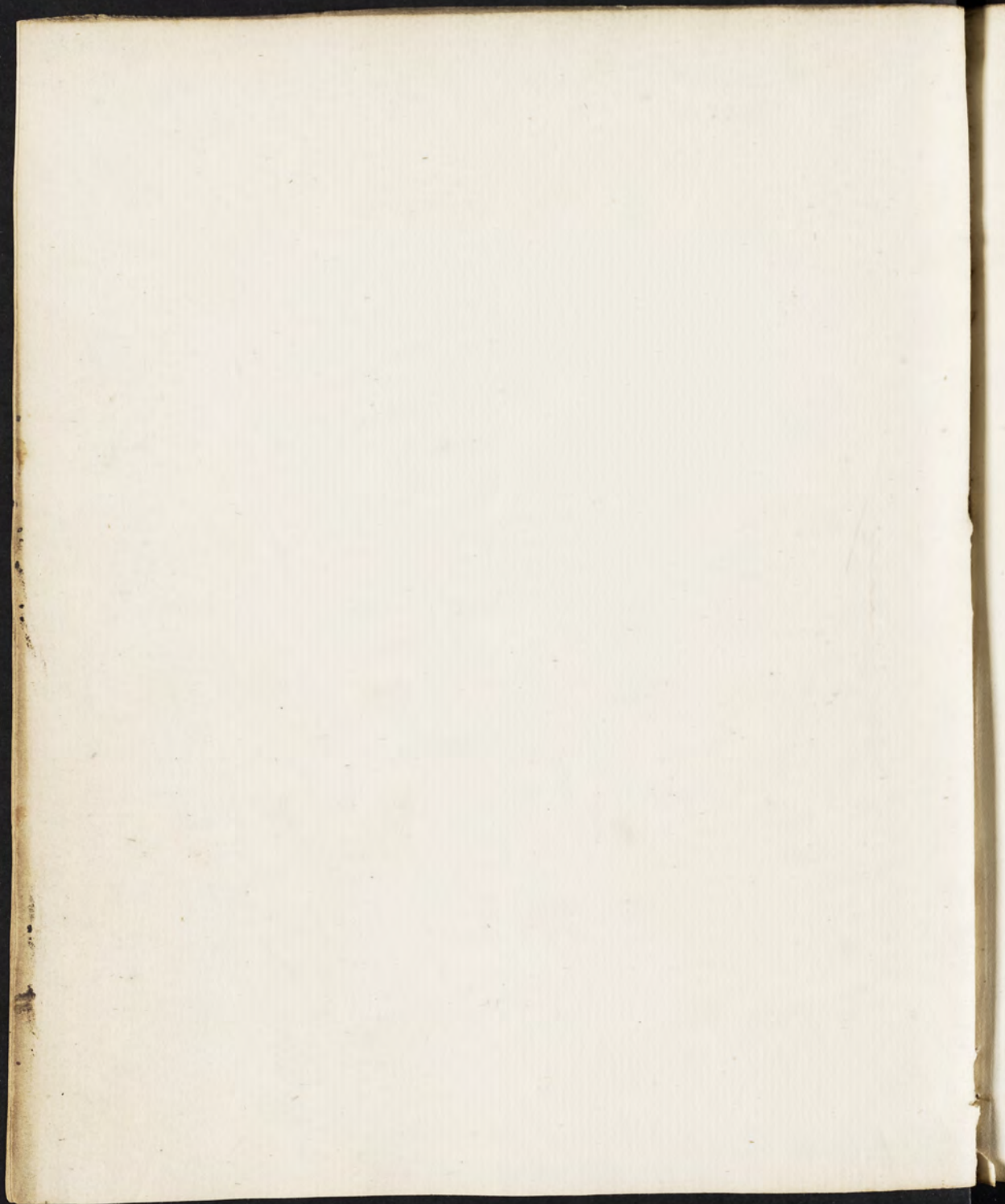
I cannot dismiss this subject without expressing my regret that there are so few books w^h are not written empirically — Few are written to accommodate remedies to the different states of the sys

tem hence the many contradictions in them

Few medicines act alike in the same disease at different times - Thus opium at one time relieves pain & at another increases it. It is thus with all medicines. In short medicines are only relatively good, that is they only do good when suited to the different states of the system. When I hear that Op. is prescribed in Fevers or in Cyanotic Tracheitis, without attention to the state of the system I feel as if I were listening to regular bred quackery. Such Physicians remind me of the Bermudian sailor who on his passage to the W Indies threw shingles into the sea, in order to find his way the more easily back. As well might we expect that the alphabet when jumbled in a box w^d fall out in the form of an Epic Poem, as that medicines w^d cure diseases when thrown into the system without regard to the symptoms & stages of disease - or in short to the state of the system

Here then Gentlemen we take our leave of the rapanties, & come next in order to the last subject viz the Practice of Medicine.





* In our Therapeutics we considered the general remedies for disease as an Unit - I shall now consider the remedies for it as it appears in its various forms or what is called individual diseases - I shall not enter into copious & minute details for books respecting the causes, nature symptoms & cure of diseases thus will be unnecessary, as the best authors are in your hands or may be easily procured - I shall deliver to you the concentrated result of all that I have learnt from reading, observation, hearing & thinking for more than 50 yrs past.

It has been the fate of Med: in all ages to be much injured by the Phenomena of diseases being explained upon the principles of prevailing & fashionable Sciences. Thus the actions of the functions of the human body after the discoveries of Sir I Newton were explained on Mathematical principles - Next upon Metaphysical by Stahl - Then the Elements endeavoured to illustrate them & lastly as in the Sciences of A. Fes? & Bot? It was attempted to render the study of diseases more easy by giving to each distinct names, dividing diseases as they did plants & animals. Let it not be supposed that I wish to depreciate these sublime & useful Studies, but they sh^d be treated as the assistants or handmaids, & not as the directors of our science they sh^d be allowed to follow after - not to go before - I shall therefore reject nosology altogether - I however must make a distinction between nosology & Nomenclature of diseases - By Nomenclature I mean such names as convey ideas of the grades & seats of morbid excitement -

The Practice of Medicine.

Gentlemen

We come now to apply the principles laid down in our Physiology, Pathology & Therapeutics to the Practice of Medicine. This is the most important part of our Science. It is that point to which all our pursuits in the science of Medicine are directed, & Happy is he who from the principles laid down deduces a rational & successful practice.* The question that first arises is what arrangement in diseases is the most proper? It has long been a custom to divide them into Classes, Orders ^{Genera Species} &c. this is what is called Nosology. This mode of division was first suggested by Sydenham it was followed by Cullen &c. # But notwithstanding I received my Education in a Nosological School I have long since rejected it, because the experience & reflection of many years have informed me that it led to many errors in Medicine. see next page

1st Nosology, is incompatible with Anatomy & Physiology.*

2^d Diseases cannot be divided into Classes &c. like Ani-

4. from Predisposition, Time, Climate seasons &c. —

* Many diseases seated in Diffemular parts exhibit the same symptoms. Pain is often seated in a part remote from disease & pain has destroyed life without dissection showing any disease at all

① for 1 Many of the Viscera are endowed with but little sensibility & many Sinuses have been discovered on dissection wh^{ch} during life gave no pain. 2 Certain parts of the body have rec^d an intercommunication of sensation that impression made on one part produces sensation in another. 3^d Different parts of the body possess different degrees of sensibility & irritability & exhibit very different symptoms when they are diseased —

* The exciting causes are only irritants. Diseases therefore are not to be divided according to their exciting causes. Nor can a division of them be founded upon their proximate causes for they are also an unit & nothing more than
ex: wh^{ch} produces different grades of the same disease — as the same as domestic Palsy &c.

III Now it is incompatible with the changes wh^{ch} are produced for Predispositⁿ, Time, Climate seasons &c. State of Society &c. — The Asiatic Plague & American Y^f are only one disease varied by the diversities of climate, &c.

These often blend several diseases together, & by what name then sh^d we designate them?

2 Nosology is incompatible with the ~~existing~~ ^{which are an unit} cause of disease, since debility is only the predisposing cause & would not prevent the proximate cause & the same exciting cause produces different diseases * disease like fire is an unit let it be brot on by what cause it may

3 Nosology is incompatible with the proximate cause viz morb: excitent w^h produces different degrees of the same disease as, Palsy Apoplexy Rheumatism

4 Nosology is incompatible with the Character of Epidemics [#] for Sydenham says they often combine & run into each other in London

5 Nosology is incompatible with the seats of diseases, for we often find them occupying every part of the body in succession now we can with as much propriety give a different name to the rain w^h falls on the hills in distinction to that w^h falls in the valleys & as to give different names to disease, as it changes from one part of the body to another — Yellow Fever in a few days occupies every part of the body & at every change gets a new name — But the point let it occupy as many parts as it will, is ^{the same} point still — Last summer I attended a lady in the ~~Yellow Fever~~ ^{point} point in the Bowels or as nosologists w^d term it Entenes

* as the Forming, the Active & the declining stages
every one of a^h requires different remedies

x It is also opposed by the ambiguity or absence of
Symptoms - The Hepatitis, ^{often appears} in India without producing
any symptoms - A few or no symptoms are produced
by tubercles in the lung - Many fevers appear
with very different symptoms -

7^d in the Stomach - Gastritis - 3^o Cystitis 1, ^{Nephritis} Hepatitis
5 Pyrosis 6 Hepatitis of ut^r she died now will
any Nosologist say that this woman had 6 disea-
ses or combinations of diseases - she had but one dis-
ease & that was Morb. et —

Strange Nosology! You allow gout to be an
Unit & why divide fever into as many different
diseases as there are symptoms - or seats

VI 6 Nosology is incompatible with the Stages
Stages & changes of disease - It takes no notice
of these ^{stages} ~~changes~~ - Diseases cannot be divided like
Animals & Plants into Classes Orders &c for it
is impossible to change an Ox into a Lion, or
an Oak into an Apple tree. They are the same
now, ^{has} they were one day after the Creation - ~~But~~
Not taking notice of the Stages of disease, has ren-
dered many diseases fatal w^h might otherwise
have been cured -

VII 7 Nosology is incompatible with the seats of
diseases & how often do we on dissection find parts
w^h for the symptoms before death we had reason to
believe were diseased, perfectly sound & vice versa
Heberden relates the case of a man in his 50 year
who was affected with pain & sickness at Stomach
this soon left him & was succeeded by pain in the

+ Dr Cullen places **Apoplexy**, Palsy, Madness, & Diabetes among the list of nervous diseases tho' they are of a febrile nature & affect the arterial full as much as the ^{nervous} arterial system if not more - He also places Dropsy & Scurvy among the Cachexies, tho' the former is smooth of a febrile nature & the latter frequently so -

* ^{particularly} when they are under 2 yrs of age

⊕ when they are attacked by internal disease for they like children are unable to tell us the seats symptoms & causes of disease

region of the Liver, This was followed by pain in the calf of the right leg, but without swelling or discoloration - This was succeeded by profuse Diarrhoea & at last he died - On opening the body instead of finding the Liver, Stomach & Intestines diseased as was supposed, they were perfectly sound, but a large abscess was found in the Spleen. What becomes of Nosology here? Who could have told the Spleen was diseased from the symptoms? I could enumerate 100 such cases if necessary.

VIII 8 - It is contrary to truth, for it combines diseases which have no connection - *

IX 9 Nosology excludes ^{from our knowledge} most of the diseases of children particularly those of the Venera * for how will they give a history of their complaints when they can't speak? - But I shall say hereafter that by the appearances of the eye, the countenance - the Pulse &c we can judge as well of the diseases of children as of grown people, by this doctrine of the unity of disease.

X 10 It dooms all Domestic Animals to death ^{from} their want of speech.

XI 11 Nosology ^{has been productive of much mischief} does great harm.

Iⁿ It does not allow of attacking disease in its

x I have said that debility is the predisposing cause
of disease, & by removing this, the accession of disease
may be prevented - But Noology does not allow of this

x & thereby lost his Patient

forming state^x, but must wait until it takes on
its Pathognomonic symptoms, or develops itself
to use the expression of a Dr in Virginia, who was
called to prescribe to a Patient but absolutely refused
to prescribe the succeeding days, saying the disease
had not developed itself. & he was waiting till it
sh^d that he may know to what Genus or Spe-
cies it belonged. that he might prescribe accordingly.
And I suppose he derived great credit for his sa-
gacity in not prescribing for a disease w^h might
probably have been cured in its incipient state
by a drink of sage tea, or a mild Cathartic. This
is Proslology! he was right, for if a man is hon-
est, he cannot prescribe until a disease develops
itself whereas our doctrine enables us to attack
disease in its form² state & cut it short as it
were in the germ.

Q^d It does harm by making as many diseases
as there are symptoms. An inflammⁿ of the
Lungs is precisely the same thing whether it be
induced by foul air or arises fr^m cold, & requires the
same remedies. There is no difference between
inflammⁿ of the lungs & bowels. Gangrene
is the same whether fr^m heat or Cold. Hydroceph

* for every form of m &

* & by occasioning different remedies for the same same disease in different parts of the body,

o Nosologists thinking different diseases to arise from different causes have prescribed different remedies for them

* W^{ts} are apparently very different

* It is no objection to our doctrine that we vary doses of med: to meet the different forms of morb ec -

Intern: is the same thing whether for worms in the bowels or Conclusions on the head

Rheumatism is the same whether for Heat or Cold yet Nosology makes all these different diseases - Thus prescribing for the names of diseases has slain thousands & that too in the hands of regular bred Physicians. -

3^d It leads us to suspect different diseases accord^g to the cause & to apply ^{different} ~~improper~~ remedies &

4, It does harm by having a specific for every disease - *

5 It does harm by having a remedy for each symptom -

6 It does harm by prescribing the same remedies in different stages of the same disease

7 It does harm by ^{unnecessarily} multiplying remedies for disease, hence has originated the Lung wort - Liver wort - Green wort - Kidney wort - brain wort &c -

Now we can expel all these from the M^d Medicine & have a sufficient number left, by a proper combination of them to cure all diseases - this is not mere abstract reasoning - the same remedies cure Mania & Rheumatism & &c viz
Vf. Cathartics, low diet &c *

* 10 Nosology has done harm by causing Physicians to neglect the works of Sydenham just as the too frequent use of Prayer Books causes us to neglect the perusal of the Bible

○ A Quaker Preacher of this City riding into the Country got into a quagmire: about a year afterwards happening to ride the same way on the same horse he again came up to the quagmire w^h had now become dry & hard - The horse however refused to pass it & after several ineffectual attempts the Quaker made this exclamation - "Horse thou hast a good memory but a bad Judgment" Just so it is with the Nosologist he has no need of a Judgment & the less he thinks the better - It is very different however with Practitioners who believe in the U of disease - Simple as the doctrine appears, yet a great deal is required - It requires the constant exertion of every faculty of the mind. Every state of the disease ... Elevated Excitement Debility Oppression, Prostration the in-

8 Nosology does harm by Allow^g certain Pathognomonic Symptoms - This divided the Physicians in 93 - One denied that the prevail^g fever was the Y.F. until he saw the Yellow skin while others looked for the Black vomit

9 Nosology has done harm by getting our Art the name of Conjectural & uncertain, when if the unity of disease had been believed, it w^d never have received this name. - *

10 It does harm by requiring the exercise of the memory without the judgment - Cullen's Nosology may be compared to a house having 100 rooms, each requiring a different key to open it - The unity of disease to a Master Key w^h unlocks the whole - Nosology requires only to name a disease & to draw upon the memory for a remedy, w^h fixed in the body must cure it - Nosologists have good memories but bad judgments - Nosology is acquired with difficulty but its application to practice is very easy - Whereas the knowledge of the unity of disease is soon acquired - but difficult to be practised judiciously - It is said that some of the most eminent Physicians were Nosologists as Cullen Sydenham &c. but the fact is that when they this is true for a sound judgment will often

Remissions, Remissions, Exacerbations, must all be attended to. Since they all require the constant exertion of the mind - The Constitution & Habit, the Season of the year - the Convalescent state, & all the different Remedies - The Combination of Epidesmes requires the constant exercise of the Judgment - The Unity of disease places a Physician in the situation of a Mariner in an unknown & varying latitude & a boisterous sea, who is obliged to keep his eye constantly upon the Compass, & reef & unreef his sails hourly as circumstances may require. The difference then between Nosology, & the doctrine of the unity of disease is simply this that the Nosologist acquires his profession with difficulty & practices it with ease. Whereas the knowledge of the Unity of disease is easily ^{acquired} but is difficult to be practiced judiciously.

I have said that Anatomy & Physiology were in Opposition to Nosology. The same disease in different parts produces different symptoms, & the different parts of ~~organs~~ viscera produce different sensations, when they are diseased. Thus there is a disease in the Cerebrum & Cerebellum is attended with different symptoms, & the pain is different.

© Why not then appropriate different names & different remedies to disease as it appears in these different parts of the body? Should we proceed thus the diseases of every nerve muscle & Lymphatic gland w^d require different appellations, or a name must be given to disease as it affects each of the component principles of these parts.

But the of Dr Sydenham have furnished the most complete objections that can possibly be offered against nosology.

the faults which otherwise arise from theories - But the fact is that when these eminent Physicians came to the bed side of their Patients they laid aside their Nosology & practised accord^d to the dictates of Judgment & reason - #

~~There is a difference between the pain in the Cerebrum & Cerebellum,~~ ^{also} between the external & internal part of the liver, between the neck of the bladder & its body - between the large intestines & the small - hence accord^d to Nosologists we sh^d have external & internal Hepatitis &c. for

I must that all these are entitled to their names, Nosological divisions in the large & important parts of the body we must also admit ~~if we admit these large divisions we must also admit the small~~ ^{if we admit these large divisions we must also admit the small} subdivisions of these parts

And if these divisions are proper here, why are they not in Anatomy & Physiology # for such reasoning the mind turns with loathsomeness & disgust - When was the boasted reason of man

when ^{Nosology} they were first adopted? When was the great mind of Sydenham when he first ^{proposed} ~~arranged~~ ^{it} ~~there~~? We read that the prince of poets sometimes

sleeps - let us suppose that the prince of medicine Sydenham slumbered at this time - ~~in consequence of this theory of the unity of disease~~ #

Thus Gent: have I convicted nosology of Falshood, Error, Strife, Mischief, Murder - who will say any thing in its behalf? - None - Then I pro-

† Depart then thou many headed monster of folly & mischief to the dark cavern from whence thou camest; - there writher & gnaw thy chains over the musty book & mouldering remains of thy unfortunate victims until thou art Dead dead, dead -

~ so long as ^{nosology} ~~A~~ keeps its present strong hold among Physicians & occasionally among our Patients

ceed to pronounce sentence upon her ~~X~~ sentence pro-
nounced

In embracing this theory of the Unity of disease
let us not forget the age & country in which we live -
Some truths, like certain liquors, require young &
strong heads ^{like yours}, not yet callous by prej-
udice to bear them - It will require such as
yours to bear the strong truth of the unity of
disease -

We ought however to know Dr Cullen's names
for diseases ^X for many people will think you
don't know how to cure them unless you tell
them some name for disease - We sh^d conform
so much to custom as to speak of disease in the
plural number - - A Lady in London ^{was} was
bled, a few days after she was ^{greatly} alarmed at a small
dark spot it appeared over the incision - She sent
for her Physician again to enquire of him what it
was - he told her that it was nothing more
than a spot w^h frequently succeeded w^h & that it
w^d disappear in a few days - ^{he made some application but} this did not sa-
tisfy her & she consequently sent for a second
^{did not give it a name} who made a similar reply - her fears were now
increased & she sent for a third who upon look^d

& altho there are weak diseases yet even in
them there is morbid action

* Stenic & Asthenic of

immediately exclaimed

at it cried out "Echymosis Madam Echymosis Madam" gave her some trifling medicine to apply to the arm & departed - the lady was then completely satisfied - She dismissed her former Physician for this last, & held him in the highest esteem merely because he named her disease Remember this Gent: Always be ready to Echymose Morb: Excitem^t for a while, until the unity of disease be completely established - I will recommend Gullen as a Nosological Author ..

Dr Brown has made another division of diseases into ^{or action & Debility} ~~Sthenic~~ & Asthenic, I object to this division. Because debility is not a disease &

2 Because *weak & strong disease alternates they pass into each other half a dozen times a day

Dr Darwin has divided disease into four those of Irritation Volition, Sensation, & Association but as well might we divide the clouds by their different colours on a windy day, for what has Volition to do with disease when they all originate from the same cause. His principles are borrowed from Dr Brown & Gullen I count only of a new arrangement - except the Sympthatics on which he has thrown considerable light - His

* But for the different relations & associations w^h exist
between the different symptoms in the various states,
Society I was obliged to give up this plan — ~~How~~

* The Unity of disease admits of every possible form
of morb. & but nosology admits those diseases only
w^h she has named — ~~Nosology may be comp~~

† Thus pursued Gent: we have no retreat but in the
unity of disease

I have thus attempted to refute an error w^h
have existed almost for the foundation of the world
& I have paid a high price for making the attempt
I have mentioned but a few of the Systems of
Nosology — but however numerous, & by however re-
spectable authority they may be supported they are
all equally opposed by the U of disease

facts have enriched medicine —

I formerly ^{attempted to} arrange diseases as they affected particular parts ^{of the body}, as the Bloodvessels, viscera &c. But I have since relinquished it seeing its Error — the same disease leaps from system to system, perhaps before its cure occupies them all* — Nature, ^{has been} it is said, abhors a vacuum, I say she equally abhors Nosology — Hippocrates compares diseases to a circle, to w^h there is neither beginning nor end — But the unity of disease may be compared to a point not to a circle — Nosology may be compared to a court w^h takes cognizance of high crimes only — The unity of disease to a system of morals w^h not only takes cognizance of high crimes, but does not let the smallest go unpunished #

I have divided diseases into two great classes

I Such as affect the Bloodvessels

II Those w^h affect the Bloodvessels, nerves.

Muscles viscera &c inclusive — Yet I do not confine fever exclusively to the bloodvessels therefore this arrangement is imperfect — but it is necessary we sh^d have something of

X Diseases have been distinguished by their symptoms - These are divided into primary, Secondary Pathognomonic & Common

1 Pain is the Primary Symptom of Pleurisy

2 Cough is one of the Secondary Symptoms & arises from the Pain

3 The Pathognomonic are those symptoms which are peculiar to & distinguish the existence of particular diseases, & the Common Symptoms are those which appear in all diseases or in most of them -

* Thus what follows is all in Puer's
Inquiries

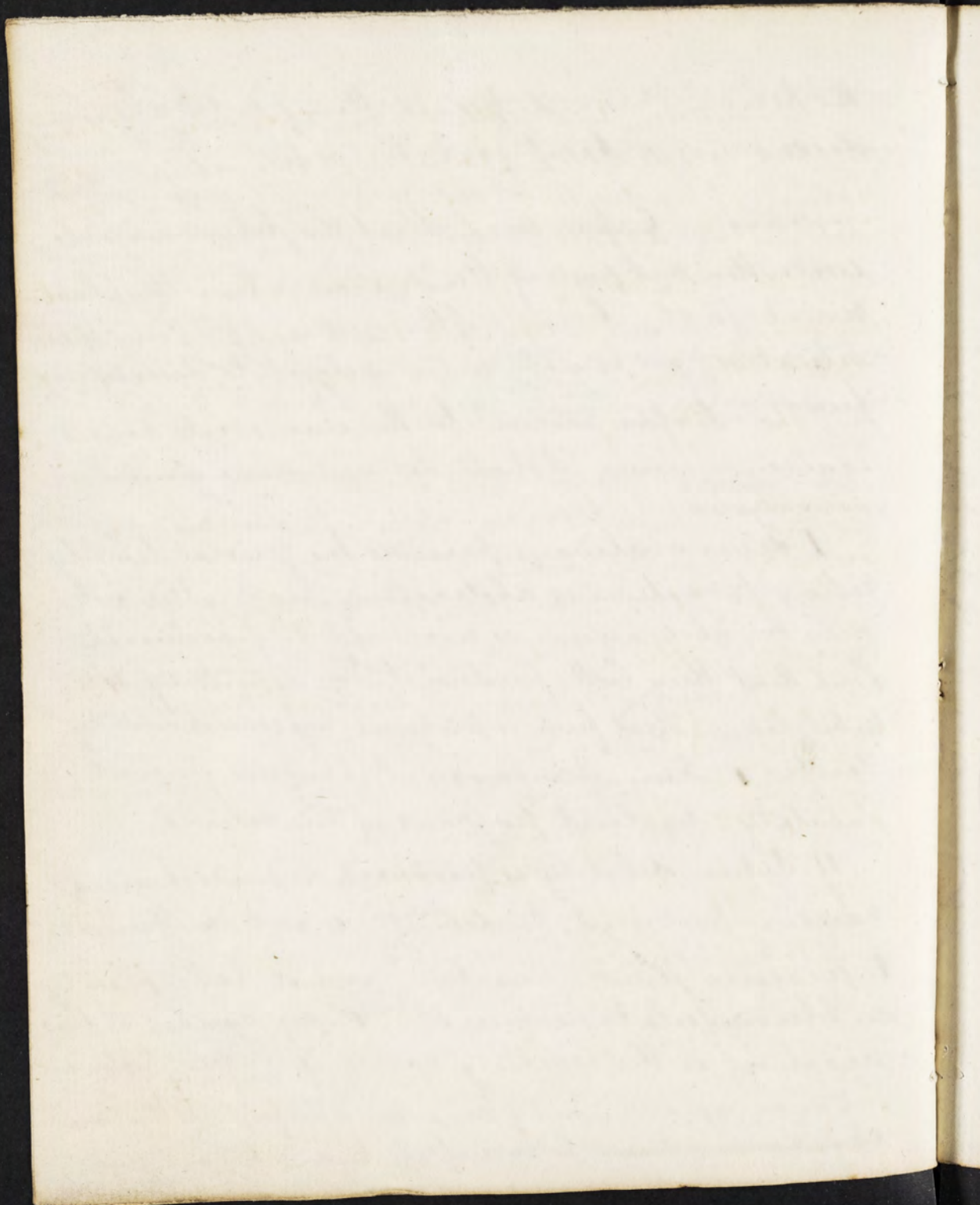
Fever

the kind - It is a difficult thing so to arrange
diseases as to treat of it in order X

I have before said that the blood vessels
were the out ports of the system, where they labour
much for the benefit of the system & for their exposed
situation are much more subject to disease (viz
fever) Before proceed^d to the immediate consid-
eration of Fever I shall deliver some general ob-
servations

I Fever is always preceded by general debility
either for action or abstraction, no matter wh^{ch}
only for abstraction is most apt to produce it
but that they both produce it by expending exci-
tabilities - That fever is produced by general debility
I infer 1 - From the causes wh^{ch} produce general
debility - violent passions of the mind

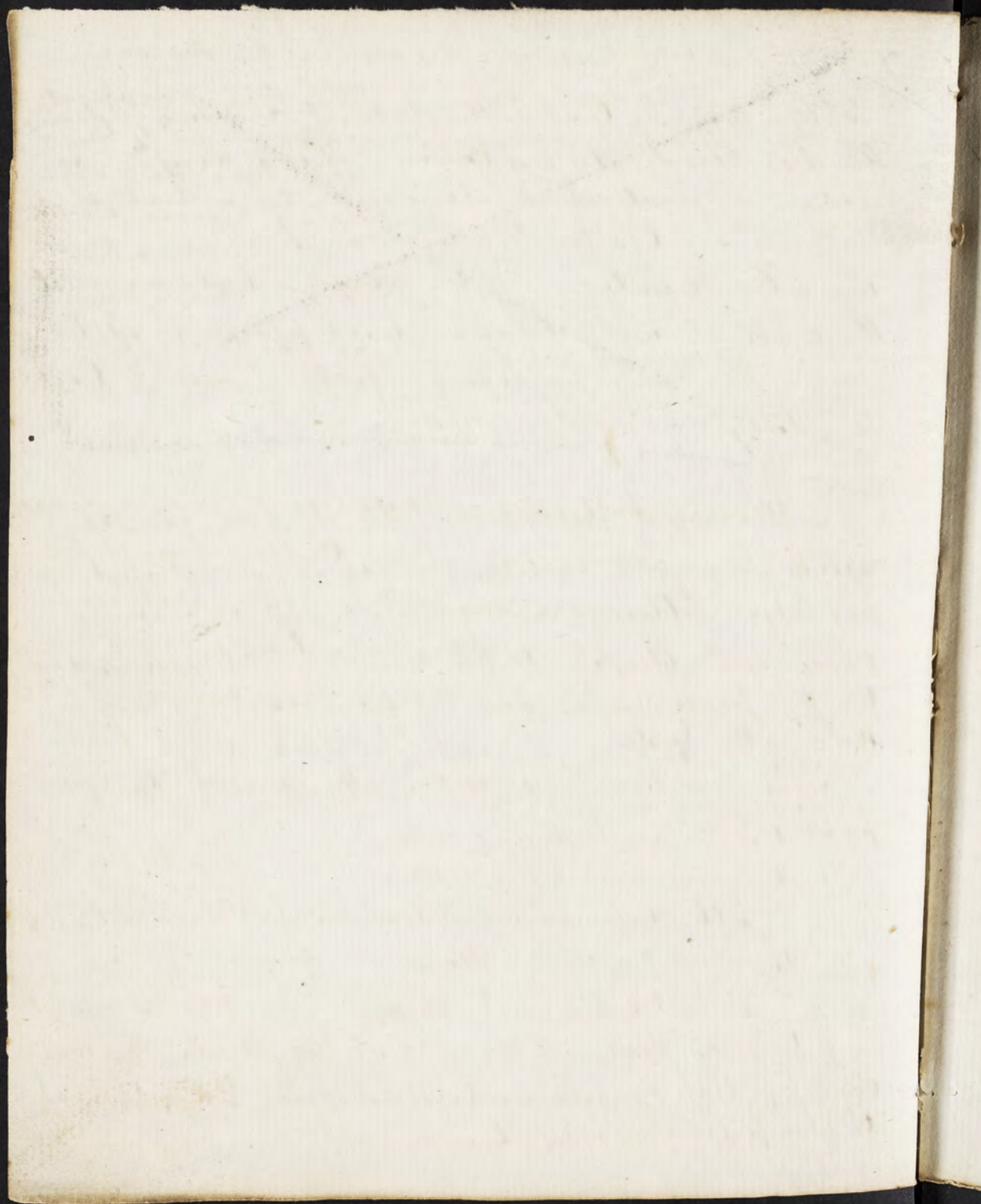
II When debility is produced, a predisposing
cause is produced, for debility is not sufficient
to produce Fever - reaction must take place in
the bloodvessels to produce it & the cause of this
reaction is the exciting cause of Fever - this will
at once explain what I have said before of the ~~excit-~~
~~ing cause of fever~~ bloodvessels being the out ports



of the system, but altho' I admit reaction I deny
the vis medicatrix of Galen - It is a simple re-
action of elasticity & muscularity - That the
arteries are Elastic & Muscular has been proved
by Mr Hunter - If we throw a ball against
the wall, it will rebound back again is it be-
cause the ball possesses vitality & sends it back?
No, just so does the system. -

(The Unity of disease altho' it does not re-
quire so great a memory as Nosology yet it does
not begot Idleness, on the other hand it requires
very close attention to the remote Predisposing, exci-
ting & proximate cause of diseases & also to the
State of the System -

In the Practice of Medicine attention sh^d be first
paid 1^o To the predisposing cause
2^o To the force of the disease
3^o To the interruptions, remissions, & exacerbations
4^o To the seat of the disease
5^o To the Constitution & habit
6^o To the Season of the year for disease in the time
of an Epidemic require a treatment more or less similar
to the prevailing Epidemic -



7 To the debility preceding the crisis of the disease
8 To the Convalescent state — All these considerations shew that the practice of Medicine accord^d to the unity of disease, requires more attention than when regulated by Nosology — The Unity of disease places a Physician in the situation of a Mariner who must in the Pathless Ocean keep a steady eye on the Magnetic Needle & who has to let go his halyards, reef & unreef his sails, hourly, as occasion requires)

Many definitions have been given of disease but they are all exceptionable — Cullen defines disease to be an irregular & difficult performance of the functions of the body & mind, but this is incorrect, for we see disease exist without the functions being perceptibly deranged — if he had added generally it w^d have been more proper

111 Fevers are not general, I have said before that there was no disease of the whole system hence we see

- 1 The bloodvessels affected & not the Heart
- 2 The whole arterial but not the Pulmonary ^{& vice versa}
- 3 One side of the body & not the other
- 4 The internal bloodvessels but not the external

[Faint, illegible handwriting throughout the page, likely bleed-through from the reverse side. The text is mostly mirrored and difficult to decipher.]

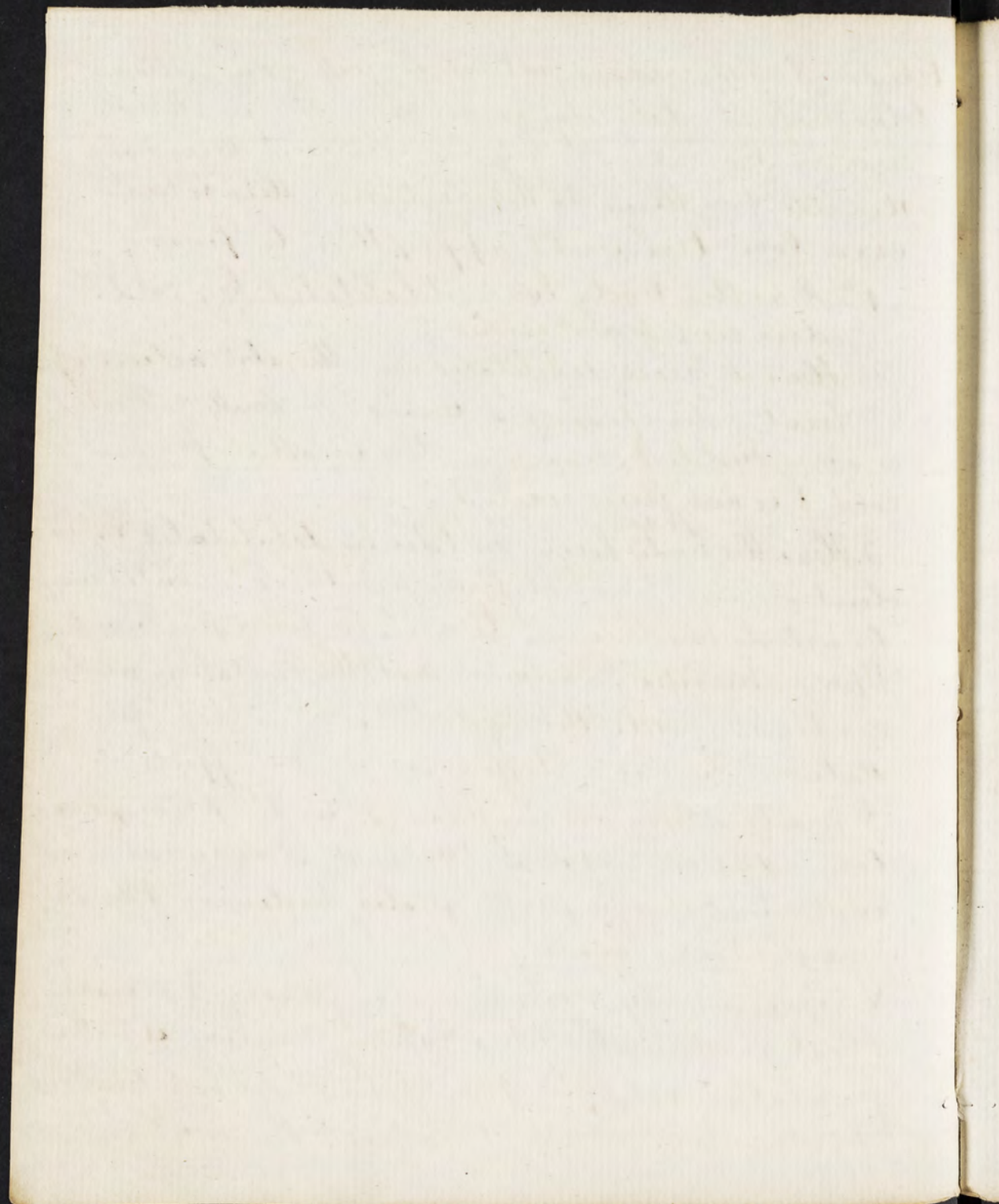
While this increased action is going on in the blood vessels debility is more in the stomach bowels &c by the excitement being abstracted from them to the arteries - this is an error look we will apply this to fever

1st Has the body been debilitated by cold? does not fever ensue?

2^d Has it been debilitated by the abstraction of heat - The change of wind from South to North or any sudden change in the weather from heat to cold? is not fever excited? —

3^d Has the body been suddenly debilitated by violent exercise? is not fever produced? But it may be asked, how are we to act for fever produced by S-pox or Measles? I answer that the contagion produces fever. Still the system is in a depressed state. — There is a difference in the effects of stimuli when accompanied with predisposition & when not, in the last it is equal — but in the first it acts with greater violence & thereby produces fever &c

4th There is but one remote Cause of disease & that is stimuli. This causes Pleurisy whether from heat or cold; from translocation of Gout whether produced from Fever Measles, S-pox or what not



It is an unit & requires nearly the same treatment
There is however a seeming objection to this, for
how does cold, want of sleep - great evacuations
&c act as a stimulus to produce fever - I an-
swer that they destroy the equilibrium of the
system, & thus act as a stimulus thereby produ-
cing fever. —

6th There is but one fever whether produced by
heat or cold or whatever cause, still there is
but one Fever - I exclude ^{description} you this local inju-
ries w^h by irritation draw the whole system
into sympathy & action - The irregularity of
the action of the arteries in fever is different
fr^m that irregularity produced by exercise. —

From all that has been said, I conclude that
fever consists in the irregular & convulsive
action of the blood vessels. but there are 2 kinds
of this irregular action

- 1 The irregularity of the blood vessels
 - 2 The irregularity of the determinations of the
blood to different parts of the head, liver &c
- The same cause may produce debility depression & op-
pression, in w^h case the blood vessels is as it were

taken by storm - I repeat it again fever consists in
Morb: action alone & Inflammation Effusion are the
consequences & not the causes of the fever - This dis-
tinction is useful & necessary as it enables us to
cure fevers in their form^d state before Inflammation
& effusion has taken place. It is very seldom that
the arterial system is affected by being bro't into
sympathy for any of the Viscera being originally
affected - (Inflammatory fever is not the highest
grade of Morb ex in the B vessels - It sometimes
transcends inflammation - It is sometimes so
violent as to leap over all the usual forms
of disease & terminate directly in death.)

From this view w^{ch} I have given you of the
state of the blood vessels you will see the differ-
ence of my opinions & Dr Brown's - He supposed
fever to consist in debility - I do not admit debili-
ty to be a disease, but place it wholly in morb:
ex: invited & fixed by previous debility - He
makes disease to consist only in a change of the
natural action of the B vessels - I maintain that
it consists in the preternatural & convulsive action
of the B vessels - Lastly Dr Brown supposes ex-
citement & irritability to be equally diffused but

[The text on this page is extremely faint and illegible, appearing to be a handwritten letter or document.]

in unhealthy proportions to each other - my theory
places fever in excitement & excitability irregularly
diffused manifesting themselves at the same time
in morbid action depression & debility for abstractⁿ
in different parts of the body - No new excitement for
without is infused in the system w^h excite fever
they only destroy its equal & natural distribution
for while the Arteries are in a plus state, the mus-
cles, Stomach & bowels are in a minus state of
excitement & the business of Med: is to equalize it
in the cure of fever, that is to abstract its excess from
the bloodvessels & to restore it to the other parts of
the System. - Morbid actⁿ in the bloodvessels whe-
ther it consists in force or frequency, or prema-
tural force without frequency, or frequency
without force - Constitutes Fever - Excepting
the force & frequency of the pulsations of the Arteries
have been considered as the characteristic
marks of inflammatory Fever. -

There is however a much greater excess of ir-
ritating impression upon the Bloodvessels - These
are premature slowess, Intermittions & Defec-
tions in the Pulse such as occur in Malignant fever
But there is a grade w^h transcends inflammatⁿ

[illegible]

inflammation I only consider as the 2^d grade, the first & highest grade occurs in Hydrophobia Dysentery & Cholera — In vain have Physicians sought by dissections the causes of fever in those cases followed by death in those parts of the body w^h were supposed to be diseased for Pain & other symptoms — No marks of inflammation nor of the least deviation from a healthy state have been found — I have ascribed this apparent absence of disease to the vessels being too highly excited & thereby too much contracted to admit the entrance of red blood into them — I wish these remarks to be remembered, they have delivered me from the influence of several errors — & they are capable, if properly applied & attended to of leading to many important deductions in the practice of Physic

Effects of fever when not removed by med:

- 1 Inflammation from an effusion of red blood into the serous vessels, constituting what Dr Boerhaave called eros loci
- 2^d Effusion of the serum of the Blood
- 3 Effusion of the Lymph w^h sometimes forms itself into a membrane w^h adheres — e.g. in the Larynx in Cyranche Trachealis, or into the Pleura in Pneumonia
- 4 Secretions of Pus also Sloughs

[The text on this page is extremely faint and illegible, appearing as a series of light grey smudges and ghosting of words from the reverse side. It seems to be a continuous paragraph of handwritten text.]

5 Effusion by rupture or a congestion of all the component parts of the blood

6 Gangrene for the death of the Bloodvessels

7 Redness - Phlegmon, Pustules, Pectus on the skin & tubercles in the lungs, liver, bowels, &c

8 Air in the cavity of the intestines

9 Scherri

10 Calcareous & other earthy matters -

11 Death - This arises from the following causes

1st sudden abstractⁿ of the excitability of the blood

2^d A disorganizatⁿ of parts eminently necessary to life -

3^d A change of the fluids so as to render them destructive to parts called vital, or vital organs.

4 Debility from the exhausted or suspended state of excitability of the bloodvessels -

All these effects of fever are different accord^g to its grade - Dr Blane says fevers are rarely in the W Indies - they pass rapidly from simple morbi: et: to Congestion Hemorrhage gangrene & Death - This remark is confirmed by Dr - who says the Pneumonia among the Negroes in the French W India Islands rarely appears in any other form than that of the Notha from the arteries in the lungs being too highly stimulated to produce

common inflammat^{ion} but such is the force of Morb: as in hot climates that it sometimes runs over all its intermediate steps & discovers itself only in death. —

Fever may be divided into 3 Classes

- I Such as affect the Arterial System but without any local affection
 - II Such as affect the whole arterial System accompanied with evident local disease
 - III Such as appear to pass by the Arterial System & fix upon other parts of the body —
- These I shall call misplaced States of Fever

The first Class includes the 13 primary forms

1 Malignant

...the ...
...the ...
...the ...
...the ...

I ... the ...
... the ...
... the ...

... the ...
... the ...
... the ...

... the ...
... the ...
... the ...

... the ...
... the ...
... the ...

... the ...
... the ...
... the ...

Heat, but principally appear in an irregular action or Convulsion in the Sanguiferous, but more obviously in the Arterial system, which predominates so far over the rest that I shall call it the proximate cause of Fever (for an account of which I refer you to my inquirer). * Fever consists in an irregular action or convulsion & induces death without inflammation or effusion. Morbid action alone (I repeat) constitutes disease, ^{are the effects of disease} & its effects are Inflammation, effusion &c. This distinction is necessary & useful. It enables us to cure Fever before either inflammation or effusion takes place. This idea of morbid action teaches us not to attend solely to the appearance of the blood; but to the state of the system. &c. ^{as change first division, or fevers} ~~Thus~~ I shall divide into 3 Classes

1st Such as affect the whole arterial system with none or but little local affection; ^{first class} of these there are thirteen states or primary forms.

1st The Malignant state of Fever; this constitutes the highest grade of inflammatory diathesis. It is known by attacking frequently without a chilly fit, by Coma, a depressed, slow or intermitting pulse

* Such is the effect of force that it sometimes produces ^{general} Convulsions - ~~the~~ Tetanus & Palsy see below
+ It is the effect of a higher grade of disease than Synochus & is not the effect of putrefaction as many writers suppose

Measles in Hydrophobia & after taking Opium & Mercurial Stimulating Med:

① & sometimes extinguishes life by means of Apoplexy & Lycoper. The least violent degree of Stimulus in this state of fever produces Palsy of the bloodvessels - It begins probably in the veins & extends gradually to the Arteries. It seems to begin in the extremities of the Arteries & extend to the heart - This is evident from the total absence of pulse at - sometimes takes place 76, & once 48 hours before death. But there are cases in which this Palsy affects the Arteries & veins at the same time - It is probably from this simultaneous affection of the bloodvessels that the Arteries are found to be nearly free of blood after death from Malignant fevers - The depressed & intermitting pulse which occurs in the beginning of these fevers depend upon a tendency to palsy in the Arteries independent of an affection of the heart or brain. This prostrated state of fever when left to itself frequently terminates in Petechiae, Bubbles, Carbuncles, Abscesses & Mortification as Serum, Lymph or red blood is effused into the viscera or external parts of the body. These morbid appearances have been ascribed to putrefaction hence the fever has received the name of Putrid - the existence of Putrefaction is rendered improbable 1st By Dr Syberts experiment which proves that it does not take place in the blood in a living state 2nd By similar appearance with those which have been ascribed to putrefaction

see bottom of next page

It sometimes by a natural temperature or coldness of the skin. The arterial system is here prostrate. It occurs in the plague, Yellow Fever, Gout & Small Pox, also in a case of Pleurisy under the care of Dr Quin of Jamaica. It is the effect of such a degree of ^{impression} stimulus as to prostrate the arterial system, & to produce a defect of action from an excess of Force*. It may be called a depressed state of Fever, & when left to itself terminates frequently in ^{debility} petechiae, carbuncles, Abscesses, Mortifications &c.

II^d The Gangrenous D^o. This is the issue of a violent inflammation left in the hands of Nature or accelerated by stimulating Medicines. - X.

III^d The Suffocated.

IVth The Synochus fortis D^o. This is known by a full quick & round pulse without tension. The Autumnal bilious fever & Cholera, also the gout often appear in this form. -

4 Vth The Synocha D^o. or common inflammatory state of Fever; this attacks suddenly, with chills & is succeeded by a quick, frequent, & tense pulse, great

* It is generally imagined that when a fever runs on to or 30 days, it must necessarily be a Typhus - This is a mistake There are ~~10~~th Chronic inflammatory fevers which continue very long & require very different modes of cure to what Typhus does - We are not to suppose it differs from the other states of Fever by want of regularity in its Paroxysms in which chills, fever, & sweats are induced, & by the brain nerves muscles & alimentary canal being little impaired in their functions - It appears to be an exclusive disease of the Bloodvessels - Occurs in Pulm. Consumptⁿ - in Lues, Scrophula Gout & after most of the states of fever it have been described - Pulse various occasionally Sympochoid Typhoid & Typhus

having been produced by lighter & violent sections of the mind, by extreme pain, & by every thing else which induces sudden disorganization of the solids & fluids 3^o Large doses of Opium produce the same symptoms which are produced by the Miasmata as Slow Pulse Coma, vomiting, Cold sweats suppression of Urine &c

Heat, thirst & pains in the bones, joints, head & side. These symptoms sometimes occur in the Plague, Jail & Yellow Fever & the Small Pox, but they are the same common characteristics of Pleurisy, Gout & Rheumatism & now & then occur in the Influenza, Measles & Puerperal Fever.

5 VIth The Synocula D. Here the pulse is small, but tense & quick & it occurs in the chronic Rheumatism & Pulmonary Consumption.

6 VIIth The Synochus mitis D.

6 VIIIth The Synochoid D. This inclines more to the Synocha than the Typhus. *next after Synocha*

8 IXth The Typhoid D. A slow chronic state of Fever & is composed of the Synocha & Typhus.

9 Xth The Typhus D. or low chronic state of Fever. This is known by a weak & frequent pulse, disposition to sleep, torpor in the Alimentary Canal tremors of the hands, dry tongue & in some instances by a diarrhoea. It occurs in the Jail, Ship & Hospital Fevers. *

10 XIth The Hectic. This differs from all the

X Of the Cure of Fever - & in the first place I shall speak of the cure of the forming state of fever - Here I must say Procul este Nosologia - Stand off ye friends & advocates of Nosology you have no remedies for either the forming or Convalescent state of fever - Your system teaches you that the forming state of fever is a sacred thing & must not be meddled with - My system teaches me to resist it in its forming stage & invites me not to visit my patients in their sick rooms & beds but in the fields & streets & by their fire sides & thresholds to prevent disease in its forming state & as it appears in I & E &c

XI

W

Other states of Fever by the want of regularity in the paroxysms & appears to be an exclusive disease of the bloodvessels. It occurs in Pulmonary Consumption, some cases of Lues Venerea, of Scrophula & of the Gout after most other states of Fever. The force of the pulse is various, being sometimes, Typhoid, Typhoid & Typhus.

XIIth The Intermittent or Remitting Do

These are common to all the states of Fever that have been mentioned, but occur most distinctly & universal-ly in those which partake of a bilious diathesis. —

XIIIth The Febricula Do

This is that state of Fever in which the morbid action of the bloodvessels is so feeble as scarcely to be perceptible. It is known to the South by the name of inward Fevers. These thirteen states of Fever seldom appear in the simple form in which they have been mentioned, but often blend their symptoms & sometimes all appear at different times in the course of a Fever. These changes are to be sought for in the changes of the weather &c

The Premonitory Symptoms of the forming state of Fever are 1st Elevated but natural excitement which is known

* Dryness Crispness of hair - a frequent full
but not morbid pulse - unusual correct & vi-
vid dreams no relish for Tobacco & Coffee, wine
burns the Mouth

* A weak quick pulse

o Going to bed sh^d always be advised as it gives
the system an opportunity of Equalizing excite-
ment

by extreme hilarity & vivacity, increase of appetite wakefulness &c. * The remedies are abstinence rest gentle evacuants sometimes a small bleeding &c. It appears more frequently in children. — Man Adults

2^o Debility — this is known by a loss of appetite giddiness, languor, disposition to sweat, ^{increase or suppression} costiveness, sleepiness with distressing dreams, &c. The remedies are rest, gentle stimulants as pediluvium warm bath, cheerful society, laudanum 20 or 30 drops with a little Hartshorne, sage tea, diluting drinks; pouring cold water on the body has been recommended by Dr Currie, moderate exercise of the understanding &c. in Study

3^o Depression. this is known by a weakness of the limbs, inability to stand or walk, lassitude, dry & cold skin, distressing dreams chilliness, shrinking of the hands & feet, yawning &c. the act of undressing has excited it — Even travelling in some mild fevers has rendered them mortal. The remedies here are rest, fasting gentle stimulants, as diluting drinks so as to distend the stomach, a warm bed, a few drops of Laudanum or Spt^o Cornu Cervi, pediluvium &c. gentle evacuants

* While elevated excitement debility & Depression encroach upon disease, the system contains one of them when the fever is formed

x Unusually erect & vivid dreams, a frequent full but not morbid pulse

these are most proper in the forming state, as purges
 emetics, bleeding, this last should be moderate & con-
 fined to a few ounces, ^{5 or 6} which will often destroy it in
 its forming state, while larger quantities will in-
 duce it, gentle sweats, or dilating drinks, discharge of
 heat thro' the body by cool & cold water. Dr John
 Brown speaks of his thunderbolt pill as puking and
 purging at the same time, which I believe to be com-
 posed of Calomel & Tart: Antim: only. Besides these
 there are many other occasional symptoms of the
 approach of Fever, as a hot, dry, parched, but some-
 times a moist skin, breaking out of old ulcers dim-
 ness of sight smell like hepar sulphuris, a dislike
 for our accustomed stimuli, as Tea Coffee, Tobacco &c
 a crispness & dryness of the hair &c &c. The system is
 daily exposed to the predisposing cause of Fever. The
 forming state of Fever consists of the predisposing cause,
 debility & a small portion of morbid action, & we can fre-
 quently by attending to this state prevent the forma-
 tion of any Fever, but when formed can seldom cure
 it. The advantages therefore of attacking Fever in its

* Pringle says the only fevers ever cured are
by this Internal Hemorrhage

✱ Powerful frictions, violent labour. The In-
dians suspend themselves from a branch of
a tree, destroying the excitability & easing pain
I have never seen a fever cured by the Pedilur-
© We often prolong life by prolonging a fever

forming state are many. By so doing we prevent sometimes its formation & duration, but after it is formed the skill consists in preventing death. Dr Cleg-horn says, when a fever is formed it cannot be cured - but will run its course; Here I agree with him and deny that fevers cure themselves as is thought in Great Britain. But to this there are some exceptions - 1st Hemorrhages have strangled a fever, this has occurred in the west indies. - 2^d Yellow Fever of this City 2^d An attack of Cholera Morbus has produced the same thing. 3^d Sweating has also, but rarely after the 3rd or 4th day - this Pringle testifies 4th Fear & Terror have extinguished a fever when formed. 5th Opium in a large dose taken by mistake has had the same effect. 6th Large doses of Bark has produced the same effect 7th A quart of wine or a pint of Spirit has destroyed it, tho' I have known death from this 8th Currie has cured them on the 2^d 3^d & 4th days by the effusion of cold water, never after the 5th. On all these I shall remark that they are all dangerous, rendering convalescence slow, producing obstructions & often inducing death. Finally I shall observe

* Sedatives & Stimulants - They are indicated in all grades of Mord: Et: when they are above the natural force of the Pulse -

The later the season a fever appears the greater the number of Paroxysms before it runs its course, & the longer it is protracted

that many Fevers cure themselves. # Nosology considers the forming state of Fever a sacred thing a (*poli me tangue*) hence another source of mischief from this many-headed monster.

Of the Remedies for Fever including the thirteen primary forms, when formed, they consist of *

1st Such things as lessen by their attraction of stimulus the morbid & excessive action of the bloodvessels, or excite them when reduced below the point of reaction.

2^d Such as by acting on the Stomach, bowels, Brain, nerves, muscles & Skin equalize the excitement of the whole system & thereby indirectly destroy a weak action in the bloodvessels by imparting to them a more vigorous & healthy action.

3rd The Remedies which belong to the first general head are evacuations. These are

Ist Bloodletting. For a full account of the advantages of this valuable remedy I refer you to my Enquiries (defence of B. & S). I shall only mention here those states & circumstances which forbid its use. These are - 1st Venesection should be used very sparingly in cases

where from the excessive force of stimuli the system is prostrated below the point of reaction, of course profuse V.G. would abstract the remaining small portion of stimuli & hasten death - 2^d After the 3^d day, of Malignant fevers if not used before it is improper, as the system is below the point of reaction. The remedies here are purges Mercury &c. 3^d In weak morbid action in the bloodvessels or what Dr Darwin calls a tendency to irritability in the bloodvessels, as in weak bilious fever or typhoid Pleurisy. The remedies here are purges & then cordials - 4th In diseases of habitual drunkards V.G. should be used very sparingly, because in this case the bloodvessels are so much overstretched that they cannot contract in proportion to the quantity of blood drawn. 5th Copious V.G. is forbidden in very fat people 6th In Pestilential fevers, here the system is so far prostrated below the point of reaction that V.G. is even improper in the first stage. In the year 1798 in this City it was the case. The system was first raised by gentle purges after which I employed V.G. 7th In diseases of external determination as in Phlegmon, Angina, Tonsillitis &c.

It has been forbidden after the suppurative
process has begun in inflammatory affections
but to this rule there are frequent exceptions
It is seldom necessary after copious expectora-
tions has taken place in Pleurisy, but if liber-
tily used before expectoration has begun, it
will cure the Pleurisy & prevent the expecto-
ration Tension of the Pulse attending Hemor-
rhages will not always yield to bleeding

without evident symptoms of suffocation. In Pleurisy after copious expectoration 9th When there is an alarming & dangerous symptom from the very great dread of the lancet. But in all these cases the Pulse is the index. There are however some cases of Hemoptysis in which I would not bleed altho' the pulse be tense before it be reduced by purging; & lastly there are some cases of Hemorrhagy with a tense pulse (& hepatic fever) which cannot be reduced by V.J. But there are some stages in other diseases in which the pulse is dumb - 1st In certain morbid affections of the brain 2^o of the lungs - 3 In malignant fever - 4th In chronic inflammation of the Liver &c. But shall our estimation of the pulse be lessened because it does not always show the disease?

No! Gentlemen the Mariner never keeps his eye from the compass tho it may vary continually. Great skill is necessary when the pulse is absent or deceives us. The pain, heat, respiration &c are then to be attended to & may direct us. V.J. is frequently necessary in Colic, Strangulated hernia & Gallstone when the pulse is natural, & I have even bled with advantage

- * In persons subject to Spitting of Blood - In Cerebral congestions -
They are indicated in fevers of a high grade of Morb. &c -

once or twice a day & continued for several days.
Dr Colham of N Carolina ^{70 or 30 years ago} used to cure bilious fevers by Emetics and in cases of the most violent grade he continued to purge the Patients for 2 or 3 days - his practice was very successful but Copious V. of. ul have prevented any occasion for this barbarous remedy -

⊙ Vomits in the forming state of fever often prevent it by exciting an action superior in force to that of the disease - I. Emet is preferable to any other emetic in fevers the Dysenteric state of it excepted

when it was feeble. Bleeding is either general or local. The first by the lancet 2^d By Cupping leeches &c which last are of service in local inflammation as Ophthalmia &c.

II^o Vomits. These are forbidden 1st In fevers of great morbid action as haematomia, ^{except after Ref.} ruptures &c. * They are useful in diseases of moderate morbid action as in pulmonary Consumption ^{S. Augustina} &c. They are more safe in children than in old people. & more safe in old people than in middle aged persons. In Pregnancy, in persons subject to cephalic complaints or ruptures they should be prescribed with great caution. To be effectual they should be given * frequently. I have given emetic every 2 or 3 days in the scarlatina Anginosa with success agreeable to Withering. Nature sometimes cures disease by Cholera morbus & Haemorrhages as in the Y. F. of 93. The best emetic is Tart: Antim: Where emetics are proper the less liquids taken with them the better.

3^o Purgles. * These are better & more safe than vomits, they invite disease from other parts to the intestines by creating an artificial weak ~~morbid~~ action in

* They sh^d be given in the Apoplexia

* They are extremely useful in Colic

* especially indicated in the diseases of Children

⊕ Sweats may be produced 1 by Sudorific Med

▽ 2^d Diluent drinks these if used must be taken in large quantities They act simply by distention & are seldom effectual

* useful in pains in the bowels, head &c

them. They are Salts, Calomel, Jalap, Scammony Gam-
boge &c Jalap & Calomel are the most proper in bilious ca-
ses & should be given once a day. They are useful to take
off pressure from the bladder. Whenever the feces shew a
disposition to pass off by the bowels in a fever, the bowels
should be opened 3 or 4 times a day, or a diarrhoea should
be kept up 3 or 4 days by means of Calomel Jalap or Rhu-
barb & if necessary Clysters should even assist. They re-
lieve the Kidneys Aorta &c from pressure of ^{stagnant} feces. They
disturb the system less than purges. It is to be lamented
that the prejudices of persons prevent our obtaining all their
beneficial effects. A Clyster syringe should be a part
of the Furniture of every family. By Stimulating the rec-
tum too we drive morbid excitement from other parts of
the body. Suppositories should be used which are ^{made of wax} Soap Aloes &c.

4th Diaphoretics. These are ^{by} stimulating
& are improper in fevers of violent morbid action. They
are stimulating medicines. ^{Liquid} By nauseating ^{meds} &c, these last
are improper, ^{they sh^d be rejected with the theory & rejected them} we should never make a sick stomach
4th By means of the
But on the contrary relieve one, Warm bath, acts as a
powerful sudorific, when it ^{succeeds} it does good, but on the

* carried over the whole body

When in Fevers nature shews a disposition to relieve herself by sweating she sh^d be aided by sudorifics. But even here it is often necessary to precede the ~~sweating~~ sweating medicines by bleed^g & other depleting remedies —

© They are proper in the forming state of fever only

A vapour bath sh^d never be used when the patient is much debilitated

A This induces sweating indirectly & when it does not produce this effect it tends to lessen morb. actⁿ.

B It may be used when morb. action has been reduced by previous depletion — Another method of producing sweats in fever is now in use it was used by Dr Physick & myself in the City Hospital with success. It consists in placing heated bricks wet with hot water & vinegar in the Patients bed — also by passing a warming pan all over the patient between the blankets. This method may be continued for 4 to 5 hours & repeated 2 or 3 times a day

C I have already mentioned the uncertainty & difficulty of this mode of depletion. Why then renounce the more certain more effectual & more delicate evacuation of Uf. —

D This deplete in a more feeble degree. It operates principally by revulsion. It may be produced by various means. 1 By giving M^d internally in doses fr^m 2 to 10 grs 2 3 times a day. 2 By friction with M. Baston^t. 3 By rubbing the gums with Mercury. 4 By fumigation. 5 Mercur. Iocks. This is Mercur. spread on linen & laid in the Stockings. When 271

contrary when it fails it does harm. I find warm bed clothes to answer much better. ^{5th By the} Cold bath ^A this reduces morbid action without inducing sweat when the heat of the body is above 108. Hot sweet oil rubbed over the body produces sweating. ^{6th By gentle} The great weight of bed clothes, this is perhaps the best method, Sydenham is the author of it. ^B The warming pan: ^{*} Bottles or Bladders filled with warm water, hot drinks, covering the whole body over & breathing the nitrogen for some time. [#] Locating should be proportioned to the strength of the patient, sometimes it should be continued as long as 24 hours & at others less. The patient should often change the linen when sweating. ^{& always when it is hot} The internal sweating medicines are

- 1st Nauseating medicines, these have seldom done much good but much harm
- 2^d Diluting drinks these act by lessening acrimony. ^{of the bowels} ^{See} ^C There are many medicines which are recommended to produce sweating - they should be combined with Opium.
- 3rd ^{5th Balivation} Stalagogics. ^{These are important remedies} These are Mercury & Mercury seldom salivates one in 4 in any fever, but in those which run their course in 4 or 5 days it seldom reaches

* The Morbid action transcends the stimulus of Mercury so much that it can't act

* When the system is so prostrated that it cannot react, mercury is our proper remedy & happily for us, it then soonest has effect —

○ Blisters are useful when the Pulse is descending to the Typhoid & Typhoid states. It is a good sign when Blisters lessen the frequency of the pulse & increase the strength of the body. —

E. A salivation however produced is a very unpleasant mode of depletion & is more uncertain than any other. Its ill effects I formerly mentioned. It frequently does not produce a flow of saliva, but swells the gums loosens the teeth & renders them carious — Ulcerates the cheeks, Jaws &c. — ~~From a review of~~

F It is not only the most powerful but it is at the same time the safest & most certain evacuation.

* The following is a review of

the mouth. ^{2^o} There is a certain point at which salivation should be commenced. ^{D Dec 768} # Mercury may be used either internally, or externally by friction with the ointment rubbing calomel on the gums & fumigating. When salivation should be brought on speedily all these methods are to be used. ^E But there have many disadvantages - as ulcerating the Cheeks, gums, and tongue. Mercury is only a medicine of necessity. —

6th Blisters. These are the weakest of all depletions & should never be used in fevers of violent inflammatory action, ^{without local affection & then only to the part affected} Jackson says they are improper in a hot & dry skin. Recollect how they were forbid in our Therapeutics. From a review of all the substitutes for V.S. we find them all ^{very} inferior to it. ^F ^{It does no} ^{none to this} ^{It kills not a single case of death on record} it does no violence to the system, ^{or senses} ^{few ever die from} an improper use of it. ^{while} ^{thousands} ^{have} ^{died from an} ^{ill timed} ^{like} use of vomits, purges & other depleting medicines. Remedies which abstract the ^{usual} stimulus of heat. These are cold in the forms of cold air, water & ice. — X

1st Cold Air. This acts negatively in abstracting heat. It should be proportioned to the heat of the body,

* ~~Abduction~~^{this} is proper in the forming state of fever. It is the safest way. - It arises from 2 Theories - one the existence of morbid matter, the other of spasm of the vessels -

* 1st By dashing it over the body - & see above

x reduces the pulse, & is preferable to abstraction

when it is at 108 it should be used - also it should be proportioned to the state of the system, for if 62 were agreeable in health 50 or 48 in sickness is best. It was for this Sydenham recommended to his patients to get out of bed & walk in the cool air, & if not able to get up to be dragged out of bed. Many fevers forbid rising out of bed, here the bed clothes should be removed, & so that it may have access to every part of the body. —

2^d Cold Water. This is useful when there is great morbid action with a dry hot skin. Bruce says the natives of Mapura cure their fevers by laying in their beds & suffering themselves to be drenched with cold water. — The modes of using cold water are many* 1st By applying it to the whole body. This method should not be used unless much exercise be taken with it, ^{as to} expend excitability, as well as reduce excitement. 2^d Sponging the body with a sponge dipt in cold water. Currie recommended this way when the fever was formed. 3^d Placing the hands & feet only in cold water & 4th I have seen the happiest effects from clysters of cold water. They operate in this way not only on the bow-
els,

Dr Currie has most erroneously said that whenever Cold water may be applied to the body it may be taken into the stomach.

x 1 By conveying off the stimulus of heat 2 after reducing the heat it causes reaction

c Before the skin is fit for reaction

& Cold has been objected to because

* See next page

bowels but on the whole body. ^{Cold} Act in 2 ways &
^{Cold is ^{water} improper}
 The external applications of water by ablu-
 1st In the early stages of fevers before the reduction of
 morbid excitement 2nd In sweating. 3rd In great morbid
 action or congestion of the lungs, liver, head, bowels &c
 4th Where the heat of the body is very intense, ^{but when heat & cold act at the same time} water exter-
 nally is improper 5th It is improper in the chilly fit
 of fever, 6th When the body is covered with sweat. It is im-
 proper in the first state of local inflammation. (* See below

3rd Ice. This is particularly useful in affections of
 the head, It should be pounded & applied inclosed in a
 bladder to the head or part required, or in a tin cap. On
 ablu-
 tion I shall make a few remarks. (* Dr. Cummins
 of Antigua recommends the use of Spirits instead of wa-
 ter, because evaporation is much quicker induced by it
 & it more cold thereby generated #

1st Ablutions exclude all other remedies.
 2nd They require a regard to many circumstances which
 require the attention of the Physician himself. 3rd I
 object to them in fevers for I believe other applications
 would produce the same effects, as washing the hands,
 face, feet, head, &c. It should be never be used as a

* The skin is an unit, water applied to one part will affect the whole - In the exhibition of cold little attention need be paid to the skin - the pulse & other symptoms alone sh^d be attended to —

x is proper in fevers of increased excitement —

stimulant in low fevers, as Saffron - for it frequently produces death. 8 Also Abstinence by depriving the system of its usual quantity of Stimuli, & should be proportioned to the excitement of the system. Milk but-
ter. Ardent spirits &c should be forbidden. Diluting drinks &c should be used, roasted apples bread water &c (refer to Johnsons Nurses guide edited by Cox) - Also those reme-
dies which abstract the stimulus of -

9 4 Sound & Light ^{should be abstracted} by silence & darkness.

Sound & light should be guarded against with the ut-
most care in great morbid actions conversation has
often done harm, delirium is often the consequence of it.

10 5 Of the Invigorating Passions by moderate
Fear - this has often had great influence in fever & in
lessening the pulse.

11 6 Of Motion by Rest. Journeys, walking &c
have frequently occasioned fever. When there is only a
slight indisposition walking or any gentle exercise will
cure it, but when indisposed during the prevalence of
an Epidemic the patient should surrender himself
as it were to rest & quietness. —

It is not necessary to say
that the water is the
apparent cause of the change
into ice -

see be abated

12 Of Acrimony by diluting drinks & cleanliness
 Diluting drinks lessen the heat of Fever & the acrimony
 of the fluids & of Bile. Too much cannot be said of them,
 they are toast & water, barley water, apple water, cer-
 tain teas of which balm is the best, lemonade, rice wa-
 ter, tamarind water, the different jellies dissolved in
 water, dry cherry water &c there should be often chan-
 ged in order that the patient may not in consequence
 of using any of them too long acquire a dislike to it.
 None of these drinks should be given cold as they fre-
 quently produce reaction in the system & its consequen-
 ces. Thirst should not regulate drinks any more than
 appetite should food in Fevers, therefore when there is
 great thirst it should not be indulged; the drinks should
 be given in small quantities & often & when there is no
 thirst; we should give them even when not called for.
Cleanliness is also very proper, the teeth, mouth, & skin
 &c should be kept clean.

Remedies which direct local morbid excitement,
 congestion inflammation & serous effusions from
 parts that are essential to life in the first degree to

* Nitre is seldom borne in Gouty Habits
& Cholic diseases - Attend to this

in frequency & force & its action on the Blood
vessels is powerfully sedative - It may be
given in a dose of 10 to 12 gr every 2^d or 3^d
hour

+ Useful in Agnochia Agnochia fortis &
nochia & Agnochia Mitis -

such as are less essential to it. There are all such as are mentioned under the head of evacuates, also-

1st Nitre & other Neutral salts. * Nitre acts powerfully on the Stomach which is evident from dyspepsia succeeding the too free use of it. It also lowers the pulse. # Nitre ʒss & vinegar 1℔ is an useful application in inflammation &c. It is not necessary that it should produce nausea &c dose from 10 to 20 grs. — ✕

2nd The preparations of Antimony of which Tart: Antimon: is the best, it excites a revulsive action in the Stomach, creates an artificial weak part. It should be combined nitre or Antimony. Seneka acts as a sudorific without stimulating the whole system. Hence its great use in Peripneumony.

3rd Sugar of Lead. This has been given in the hemorrhagic state of Fever with great success. Sir George Barker gave it with great success in internal hemorrhages.

4th Fox Glove. This lessens the irritability of the whole system. It should never be given in a low pulse. In the Dropsic & Pulmonary states of Fever

r Polignant -

ff And occasionally Grockus mites

it has been principally recommended. (Dr R. has had no experience of its use therefore can say nothing of it). It has been lately used in the Synocha & Synochula states of Fever: But I think it should never be used unless with the greatest circumspection. Sweet oil externally applied in Fevers of great morbid action has been of great service this I infer from its use in local inflamm^{ts}.

Dr Jackson tells us that the sweet oil applied in the manner just mentioned lowered the pulse. Nitre dissolved in vinegar has been used. - Dr Stuart of this City has lately mentioned the good effects of ligatures in morbid action by stopping the return of venous blood. Dr Stahl mentions the power of wakefulness. "No one, says he, knows the effects of wakefulness in high Fevers" I have frequently witnessed the good effects of this & have sometimes seen a patient wake delirious. Here before I conclude the account of remedies for diseases of great morbid action in which I include ^{Malignant} Synochus fortis, Synocha Synochula, Synochus ^{& occasionally Synochus} Mitis - & Synochoid. I beg leave to add the following Indian remedies. 1st Powerful friction - ^{the Natives of} Capt^m Cook was cured in this way by one of the

* The Pulse is low, frequent & less tense than full
Called by Dr Butler Slow nervous or chronic fever
It is often a form of mild bilious fever -
Hospital & Jail fever often commence Typhoid

Typhoid

friendly, spasms of the Rheumatism. 2^d Violent ex-
 ertion or labour, the Indians cure Mania by Misme-
 ans 3^d Strong stimulating powers. They often cure
 Pleurisy by stretching the arms or by swinging by
 the arm of the affected side. 4th Hot & Cold Bath, these are
 proper in external diseases; in tonic mania, Indian
 Constitutions. The Russians use a bath similar to that
 of the Indians to preserve health. They are only indi-
 cated says D^r R. in diseases which have external
 determination. But none of these are equal to Q. J.
 & its auxiliaries, as Purges, Vomits &c. Before we come
 to treat of Stimulating medicines we will say a few
 things respecting these states of fever where both eva-
 cuants & Stimulants may be necessary; as Typhoid
 Bilious & Pleuritic states of fever. The Typhoid and
 Typhus creep on gradually, sometimes with feeble
 chills, the skin & the edges of the tongue dry, with head
 ache; continue 30 or 40 days without intermissions. *
 Vomits frequently choke it in its forming state, but
 large Q. J. bark & wine do harm. - It is sometimes
 best to wait awhile until it wears itself completely

But by time & space are always
prejudicial —

There is no reason to be contented
until the reaction is heard
I'll draw — I'll draw —

Reaction is reaction —

down into the Typhus only obviating urgent symptoms. The remedies are 1st Moderate V.G. once or twice when the pulse is tense, ^{& full} 2nd Vomits these are safer than V.G. they as it were unite the typhoid knot. 3rd Gentle purges nitre, blisters, ^{perhaps} cold applied to the skin &c. & should be continued until the ^{typhoid} action be nearly worn down. In short the remedies for the Typhoid state of Fever may be summed up under three Heads. namely, abstain, sustain, & sist — The indications are 1st To equalize excitement 2. To excite another action, give stimulants but gentle, & if they do not render the pulse slower & fuller discontinue them. Jackson speaks highly of the effects of gestation, but says, that it should not be used until the fever has run its course, & I think very properly.

Of the Primary Forms of Fever which require Stimulants. There are such as Forbidden depletion, as 1st Malignant, ^{where there is no action} 2nd Gangrenous which arises from not depleting in the first stage of disease or suffering it to terminate in itself. It occurs in the Small pox, pleurisy-Plagi, Typhus & Gangrenous sore throat. This is the Typhus Gravior of Cullen; known by nearly a

* The Pulse has ~~an~~ irregular ^{weak & jerking} stroke —

When stimulants make the pulse slower & more full they do good when they render it more frequent, they generally do harm

+ deafness glandular swelling, abscess Gangrene in different parts of the body sometimes without inflammatory symptoms

© Patient insensible of his danger & feels very well indeed. Sometimes total prostration of strength
Blood vessels in a stricture state

289

Pulse scarcely perceptible
paralytic state of the blood vessels, hemorrhages, buboes,
carbuncles, great muscular strength & pain, or the ab-
sence of both, absence of mind &c. ^{3^d} The low chronic
state of fever, or Typhus ^{of Dr. Butcher} &c. This is the Typhus mitior
of Cullen, known by delirium, coma, languid eyes, sal-
len jaw, ^{dry furred &} black tongue & teeth, ~~also dry tongue~~, coldness
of the extremities, costiveness or diarrhoea, ^{often involuntarily discharged} pale urine, dry
skin, & at the close by Typhomania & little cough. This
is the effect of debility, it follows ^{all} inflammatory fevers,
or may be primary - & requires Stimulants. - #

II^d The remedies which belong to the second general
head are Stimulants. These divide themselves naturally
into such as are internal & external. ^{& see Rules below} - The internal
may be divided into Medicines & Aliments. The first are -
1st All Fermented & Distilled liquors. Before I
mention them particularly it will be necessary to give
a few rules for their use. 1st We should begin with
small doses of the weakest stimuli & gradually increase
them - 2^d Give 2 or 3 at the same time - 3^d give them
in rotation - 4th & Constantly. The fermented and distilled
liquors are such as Wine, Malt liquors, Ardent Sp^{ts}

[The text on this page is extremely faint and illegible, appearing as ghosting or bleed-through from the reverse side. It seems to consist of several paragraphs of handwritten text.]

Wine is a pleasant & cordial medicine, is nutritious as well as stimulant since it contains spirit, malt, saccharine matter, acid & water. The quantity of it should be regulated by the state of the system & quality of the wine. White wines are most proper when acidity prevails in the Stomach, but in cases of extreme debility the pure wines are the best as Madeira &c. From one to 3 Quarts may be taken daily in most cases. Persons in health are much more easily intoxicated by wine than when they are much debilitated.

Of Malt liquors - Porter is to be preferred, from one to 3 bottles of it may be given in a day. Ardent spirits - these should be only used where the patient has been very much accustomed to them or when a sudden effect is desired from the stimulus. These last are stimulating without affording any nourishment. \frac{ss} 1 to 2 Oij a day.

2° Volatile alkali. This has great effect in this state of fever & may be given from 5 to 10 gr^{ss} ^{in a bolus or pills} 2 or 3 times a day.

3° Empneumatic & aromatic Oils, also certain fetid Animal & Vegetable substances. Of the first

I will only recommend the oil of amber which is an excellent stimulus in the Hiccough which occurs in the low stage of Fever from 5 to 20 drops every two hours. Of the second I shall only recommend the oil of mint. I have never experienced the great effects that have been ascribed to Musk & Castor, they succeed the album Graecum & which were used in the ancient & superstitious days of medicine.

They would universally go out of practice if Physicians knew as much as they ought of Opium wine &c

4th Opium. This is a host of Stimuli itself. All others may be compared to the feeble rays of a candle while opium may be, to the powerful ones of the sun. While other Stimuli appear to act partially upon the different systems Opium appears to act upon them all. It acts on the Stomach in large doses producing inflammation of that viscus &c on the brain producing hilarity &c. On the bloodvessels rendering the pulse more tense & feeble but less frequent. On the alimentary canal producing Constipation. On the Kidneys & Bladder promoting the flow of urine, On

[The text on this page is extremely faint and illegible, appearing as ghosting or bleed-through from the reverse side. It seems to consist of several paragraphs of handwritten text.]

the muscles by relaxing spasms on the skin producing sweating, itching & eruptions. That opium differs from other Stimulants in some respects in producing these effects is certain, but what two stimuli perfectly agree? They all vary in their action upon the system; thus bitters act principally & chiefly on the alimentary canal, Other & Volatile alkali upon the nervous system Spirits & fermented liquors upon the bloodvessels & nerves; Oil of amber on the muscular system & Opium on all. It differs from most or all of the Narcotics that act on the brain & nerves, It is to this I ascribe its familiar action in inducing sleep. In a neighbouring state in the year 1769 a Gentleman took a tablespoonful of Laudanum mistaking it for a neutral mixture, He was thrown into a sleep in which state he continued 48 hours & awoke perfectly well. Since the American Revolution it has been used a little in G. Britain in Typhus fever. In its exhibition the following directions are proper.

- 1 Great attention should be paid to the pulse 2^d Be-
- gin with moderate doses, 10 or 12 drops will often do

x in the interval give some *Mor Stimulant*

more good than twice the quantity. It acts in 2 ways in bringing on sleep. 1st By raising the system to the sleeping point when below it & 2^d by carrying the system to the indirect sleeping point; this last method is dangerous in fevers. 3^d Give it in an increased dose according to the increase of the debility. Dr Boquet of Paris took 100 grs of Opium & a pint of Ether in one day to cure the colic. In cases of indirect debility the doses should be small. Dr Stedman relates the case of a man who died in consequence of taking 20 drops of Laudanum to check a vomiting. He had taken an emetic & was debilitated, his excitability was accumulated & the stimulus of the Laudanum destroyed him.

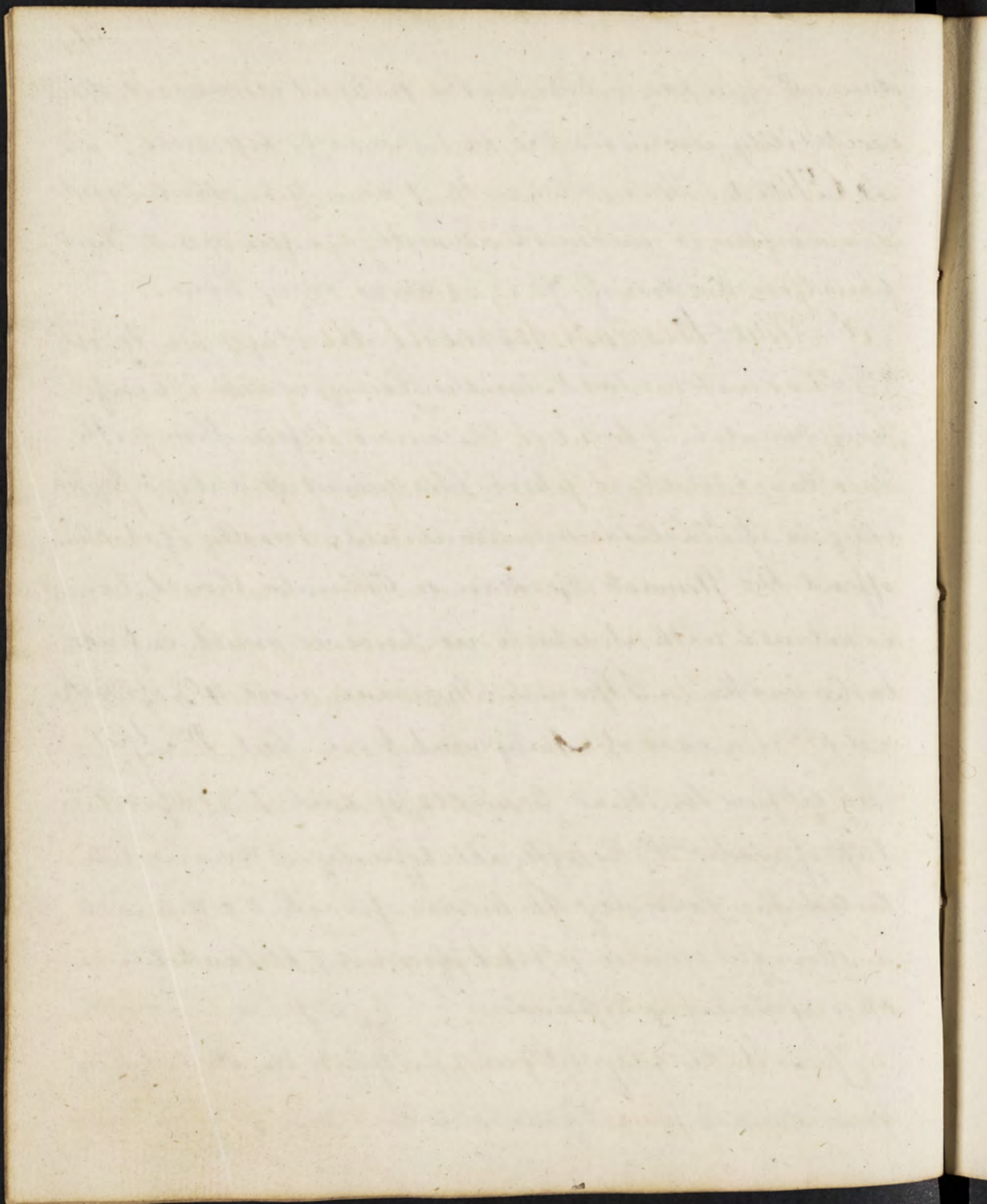
4th It should be given in small doses during the day but larger during the night. because there is a deficiency of stimulus in the night while in the day there is additional stimulus, as wakefulness. 5th In all cases of sudden debility begin with small doses. 6th It should be laid aside after loosing its effects for a day or two. 7th When it ceases to operate on the Stomach give it by injection with double or treble the

dose. 8th In proportion as the patient recovers & the excitability increases the dose should be lessened.

5th Ether. This is a quick & powerful stimulant & is sometimes used with advantage after opium has failed, in the dose of 30 or 60 drops every hour.

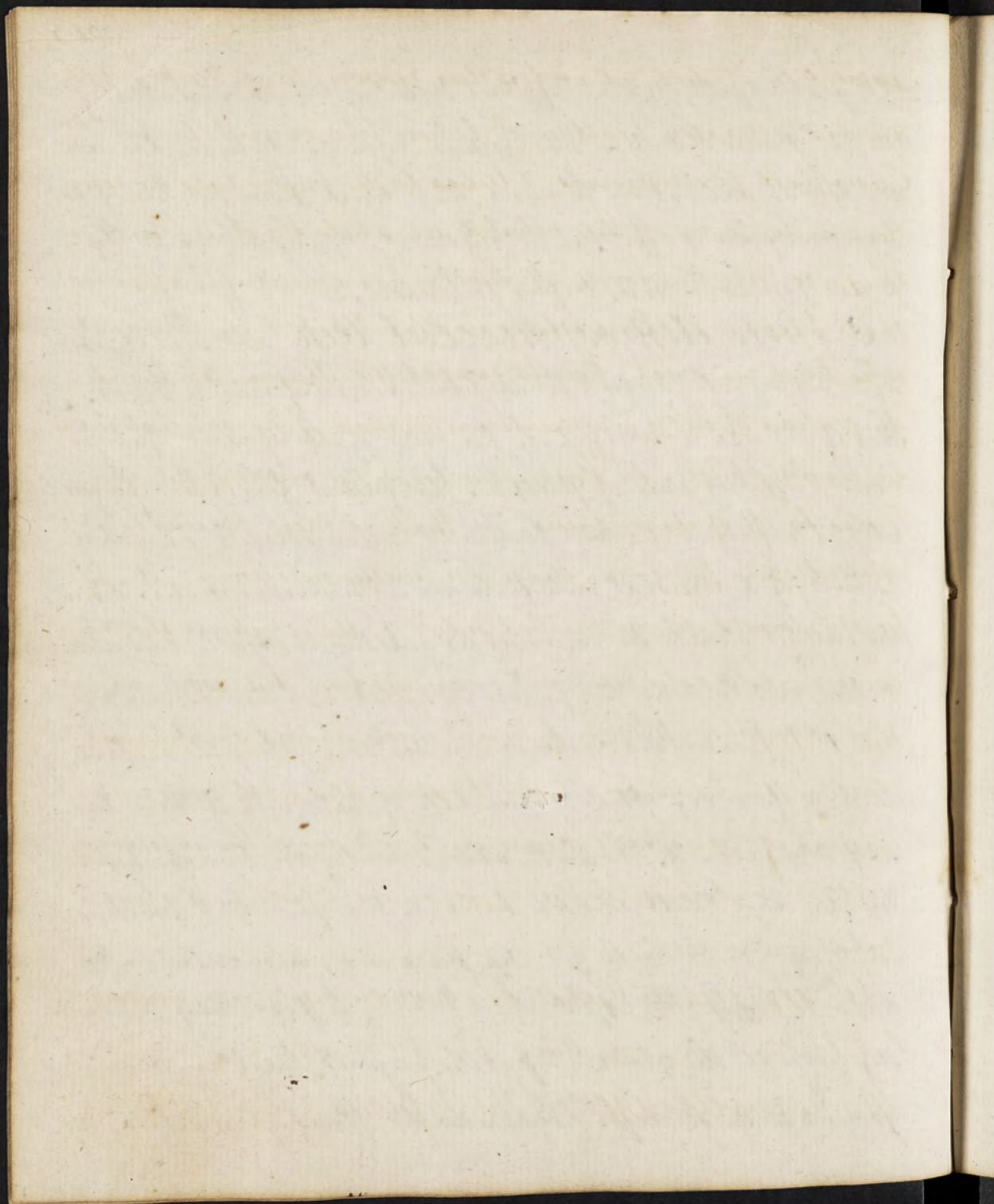
6th Bark. This has many advantages in Fevers & acts as a stimulant. We should begin with the infusion provided it has not been used before. then with Kuxham's tincture which has many advantages by having bark & Laudanum combined; & lastly if it sh^d offend the Stomach Gentian or Columbo should be combined with it which are however much inferior to the bark. A Spanish Physician used 4℥ of Bark a day in a case of Malignant fever. But Dr. Apilini tells us he found bark & coffee each 10℥ infused in 1℔ of water to be of equal efficacy. I have substituted the following formula of Bark & coffee each a spoonful, water 7/8 pint from one to two table-spoonfuls every 2 hours.

7th Mercury. I have used this with advantage in these states of Fever, & was led to the use of it from seeing



its good effects in the Typhus state of Cynanche Maligna 2^d From the cure of Typhus in a Gentleman by an accidental salivation & since that time from the benefit derived from it in the Malignant, Gangrenous & Typhus Fevers where V.S. is forbidden.

8th Pure Atmospheric Air. not simply cold air. Too much cannot be said in favour of this in Fevers. Its effects are wonderful in the cure of Malignant Gangrenous & Typhus state of Fever. Malignant fevers are frequently changed in the West Indies to Intermittents in consequence of a removal into pure air. When a removal is desired the patient should be conveyed as quietly as possible, but when this cannot be done the following substitutes should be adopted. 1st Remove the cause or causes corrupting the air, and make a fire in the middle of the room if there be no fire place. 2^d The Earth absorbs contagion & poison. Hence we see dogs & cats scratch holes in the ground & breathe in them in order to get the pure air; also certain Nations as those of Genesee when bit by a poisonous snake dig holes in the ground & put the injured part in the ground with success. Hence also the floors of Hospitals.



should be of dirt, it is for this reason that the poor people are generally healthy. 3^d When fire cannot be had Dr Campbell recommends 2 tubes to be passed into the room, the one to carry off the vitiated air while the other conveys the pure into the room. 4th Smoke has a wonderful effect in these fevers. Dr Bruce tells us that the poor in Naparato who lived in smoky houses escaped the Plague. 5th the deflagration of nitre or the decomposition of the muriatic acid by the sulphuric. 6th Having the bed in the middle of the room & also bereft of its curtains. 7th That no more persons be admitted into the room than are really necessary. 8th No person should sit on the bed side. 9th the excretions should be rec^d into cold water & conveyed from the room as soon as possible. 10th The linen & sheets should be changed daily. 11th The floor should be sprinkled with pure water instead of vinegar, because in 2 or 3 days the vegetable matters contained in the vinegar will putrify & assist in vitiating the air.

9th Oxygen Gas. This has been highly recommended but I cannot say any thing of it from experience. ^{too expensive}

10th The invigoration of the Passions & Understanding

or in broths - The appetite in Typhus fever generally revives on the fifteenth day.

Anger once cured a man in Jamaica of Typhus Fever. Fear has often done the same. Courage pronouncing great names or popular & joy from seeing absent friends, good news &c have often done much service in these states of Fever. A Lady in this City was once snatched from the grave by the sight of her lover. Hope should be inspired into our patients as it is that cordial which we have most under our command. Gloomy visitors should positively be forbidden, but a pious Clergyman should be admitted because their conversation will tend to reconcile the patient to his destiny.

11th. Stimulating injections into the bowels, these have often done service & are numerous. The most valuable remedies for this state of Fever are Bark, Wine Opium - Warm bath. 12th The Aliments include such animal & vegetable matters as are commonly used in diet, together with sago, tapioca arrow root & the like. Animal food may frequently be given in a solid form to advantage. I once cured a gangrenous small pox by indulging the patient in Animal food. It acts in 2 ways. 1st By the pleasure it gives the patient to think that it is in

^ & to strengthen the stomach by eating little at
a time

his power to eat of it, & by its stimulus in the Stomach
 2^o By affording a matter for red blood & that by repetition
 producing one of the most powerful stimuli of Life. I
 am induced to believe that the low fevers are often cured
 by animal food, as ham, beef steak &c. In the use of it
 two directions may be necessary 1st Do not suffer the pa-
 tients appetite to regulate you - 2^o Great care should be
 taken to tempt the patient to eat often by changing the
 food &c for as the appetite often exists without digestion
 so may digestion go on when there is no appetite. —

The External Stimulants are

1st Several of the Internal so prepared as to be
 applied to different parts of the body, as ^{the} nose, tem-
 ples, limbs, & the external region of the Stomach & bowels.

They are Flannel wrung out of hot water, the vapour of vin-
 egar to the nose & mouth. washing the hands & face in vin-
 egar, cordials; wine Lark & given in injections. —

2^o Cold & Warm Baths by lotion or affusion
 over the whole body. Cold Bath has been recommended
 but it is not safe when the system is below the point of
 reaction. in the Gangrenous state of Fever it has hastened

& improper, as they generally occasion pain.
Where there is local pain they may be serviceable.

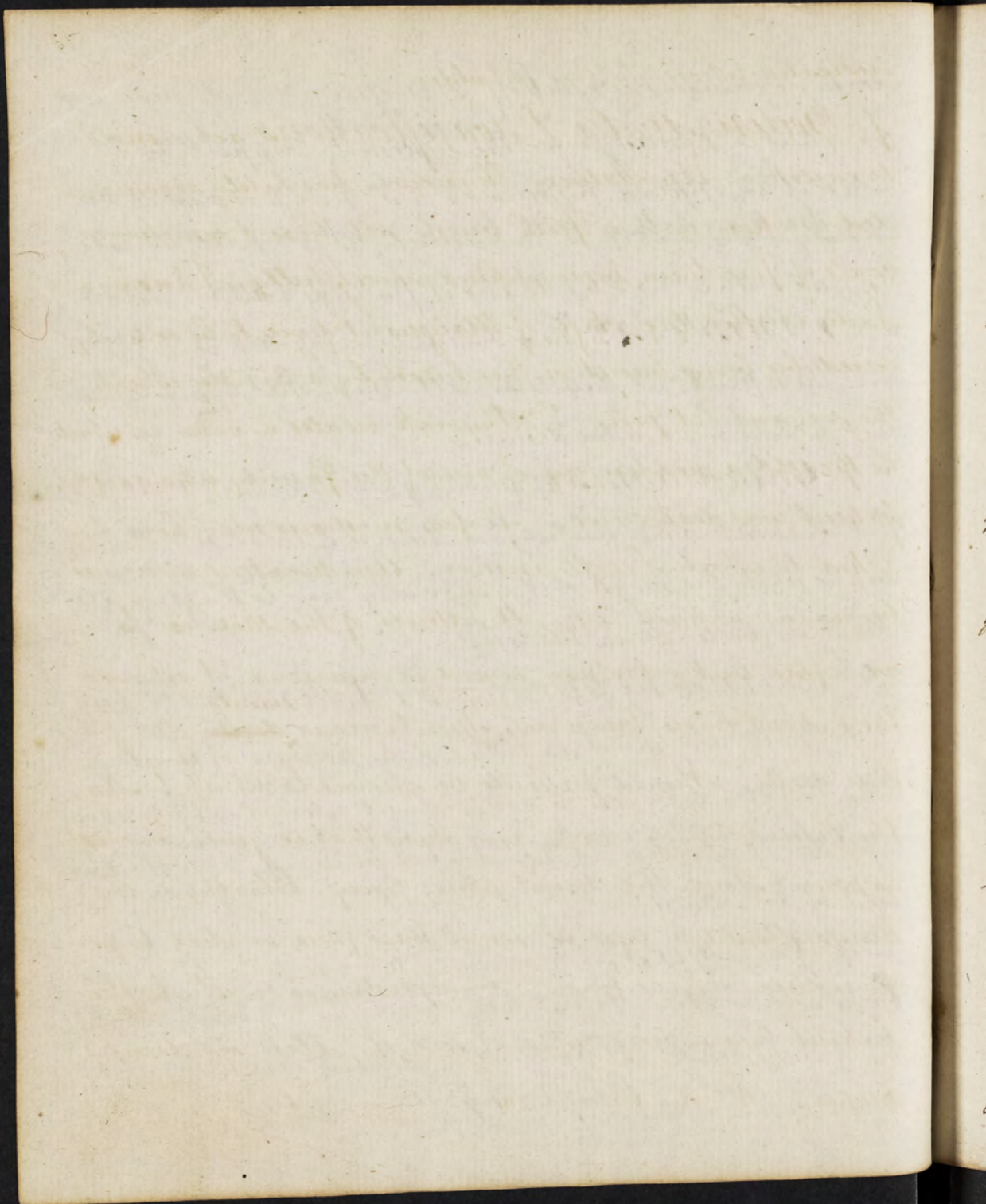
death, because the exertion of dressing & undressing was too great a stimulus for the system to support, but when it is applied by means of a sponge or dashed on it may be of service. The warm bath is equally unsafe & should only be used by means of flannels, bottles or bladders. —

3.^d Blisters. There have been spoken of before in our Therapeuticks they may alternate the symptoms but seldom remove the disease. —

4.th Cataplasms of onions, garlic mustard &c to the feet. These are often useful; in the use of them we should begin with the weakest & gradually rise to the strongest, these are better than blisters.

5.th Certain applications calculated to irritate & inflame the skin, as Oiler & the tincture of Cantharides combined, which is an excellent external application, also the application of the volatile liniment with the tincture of Cantharides. —

6.th Caustics. These are often necessary to revive from a comatose state. They should be applied to the back of the neck. I have often derived much benefit from them when nothing else was of service; they are



indicated when T. S. is forbidden. —

7.th Boiling water & Scarifications act similar to caustics. An Italian Physician has lately recommended friction with a flesh brush; all these & sometimes coals of Fire have been applied successfully. I know a Lady in the last stage of Malignant fever to be entirely cured by being burnt on her breast by a Candle which the servant let fall. Dr Physick relates a case in which he thought a sudden cry of one of the Family, who said the patient was dead, cured. — A few questions may here be asked to which I will answer. Are sweating medicines proper in Typhus? No. A softness of the skin is favourable but a profuse sweat is injurious. it exhausts the patient to no purpose. Spontaneous ^{sweats} ~~death~~ after precede death. Should patients be allowed to sit up? No, the patient is too weak, any thing that is given should be poured down the throat while lying. Cloaths or other things should be used to receive their Feces or what passes from them. I have known some instances in which the patient has expired on the close stool. Are cold drinks proper? No the patient frequently asks for them just

before death owing to the morbid action retreating to the Stomach or Fauces as the last Strong hold. Is purging proper? No, unless there be a great accumulation of Bile. Clysters should be used to produce a stool every day, but there are cases in this fever in which the retention of the Feces 2 or 3 days is really proper. The urine should be drawn off by Catheters & particular inquiry should be made respecting its time of discharge, as the patient is sometimes insensible to its great stimulus. Warm drinks are generally proper. Is sleep proper? This depends upon the state of the pulse, if it be active sleep may be admitted, but if faint the patient should be awakened every half hour to take aliments or medicine, or where the pulse flags. I would have you to recollect that life is more languid in the sleeping than in the waking state, hence death often occurs in sleep from the total abstraction of stimuli, & patients often die in the night for want of the cautions just mentioned. I have called these the Malignant Gangrenous & Typhus forms of fever, but they frequently change into others. I have seen the inflammatory change into the Typhus form, & the

I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the
the same has been forwarded to the proper authorities for their consideration. I am, Sir,
very respectfully,
Yours obedient servant,
J. M. Smith

Typhus into the Inflammatory, after some weeks. In such cases frequent visits are necessary. The low nervous changes into the Typhoid, all of which at different periods require different stimuli. The forms of the Malignant & Gangrenous differ, sometimes in beginning with ~~eruptive~~ eruptions & sometimes with ending with them, being at sometimes preceded & at others succeeded by the same appearances, sometimes requiring weak & sometimes strong stimuli & vice versa -

In a Fever at Illinois all died who took the Cort. Peruv: while those who took a decoction of the willow Bark recovered. The human body is not like an old house which can be repaired with the same materials; it requires different stimuli & different degrees of these stimuli. I will here risque a bold assertion, that if a Physician could be possibly with his patient, have absolute command over him, accommodate his different remedies to the state of the system & that it would hardly be possible for the patient to die of low nervous Fever. A judicious Clergyman used to say that he first considered his congregation & afterwards accommodated his sermon to them, in like manner ought

[The text on this page is extremely faint and illegible, appearing as a series of horizontal lines.]

a Physician first to study the constitution of the Patient, the state of the system, the climate &c & then consider the medicine proper for him. I have to observe that few of the observations on the diseases of Europe are applicable to those of America. The condition of the system as shown by the pulse - the condition of the system - I repeat it again & again - the condition of the system should govern the prescription. A Fever as the sails of a ship should be turned to suit the wind. I formerly thought that the Typhus was not an original form of Fever, but I have since changed my opinion & believe now that it comes from ~~Pandora's box~~ stamped in the original with this form of Fever. This fever may become Chronic by saving life, but suppose its violence was so great as to terminate in 3 or 4 days, by T. J. it might be enabled to run the whole course of 30 or 40 days with which it was originally stamped & thereby death prevented. I bled 2 Sailors in the spring of 1803 with the Typhus it nevertheless spun out its time for 30 or 40 days. It is often I believe excited by a scanty depletion in malignant & other inflammatory fevers. When I first settled in this City the most

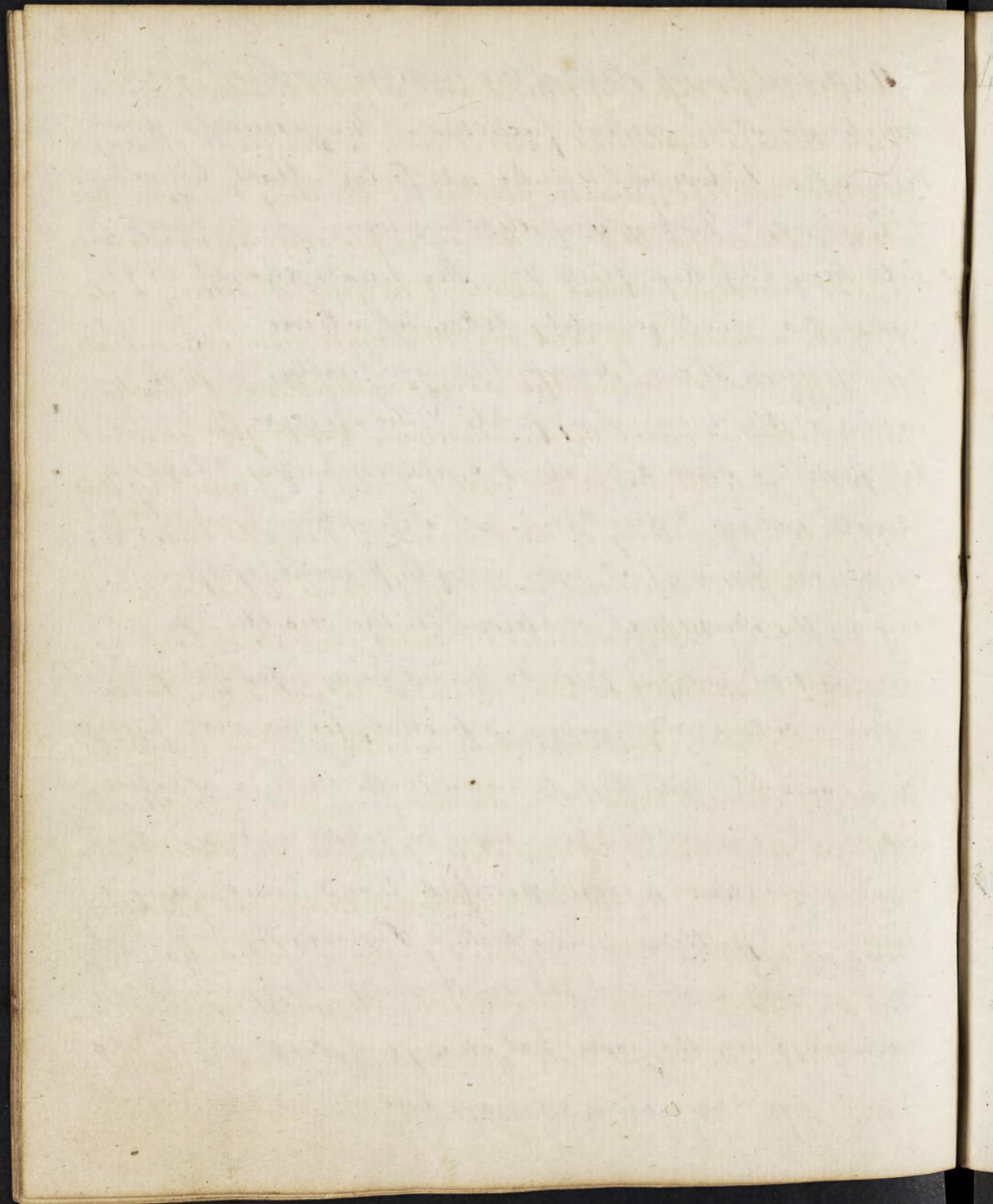
Debility after the termination of Typhus

common type of fever was the Intermittent, which at length changed to a Chronic. The chronic to a bilious, & the bilious to the Yellow or Malignant fever. Many people die of weakness after fever like General Wolfe in the arms of victory. Care should be taken to obviate debility succeeding disease. This may sometimes be done by a few drops of Laudanum.

Of Convalescence. — This is a ~~disease~~ consisting of debility except of excitability & a little morbid action, or several febrile symptoms. It is attended
 1st with wakefulness. 2^d Often a mawkishness & a vomiting of bile in the morning. 3^d defect or excess of appetite
 4th Anasarcaous swellings of the limbs, this occurs more particularly when V. S. has been neglected. Also Ulcers, Abscesses, Coughs &c. 5th Obstructions of the liver spleen &c. 6th Ulceration of the parotid & inguinal glands 7th An impaired state of memory, defect of speech & even paraphrenia. 8th a change of the colour of the hair & even a loss of it sometimes. 9th Costiveness & a yellow colour. 10 Feverishness especially in the afternoon, & pulmonary affections —

Handwritten text, mostly illegible due to fading and bleed-through. The text appears to be organized into several paragraphs. A large, stylized flourish or signature is visible at the bottom left of the page.

11th An impaired state of the mental powers & even sometimes of the moral faculties. The remedies for these are 1st Cordial drinks, as. Porter, Malt liquor &c 2nd Cordial & Nourishing diet, beginning with chocolate then Chicken, flesh &c. The meals should be frequent & a small quantity taken at a time. 3rd The usual stimuli should be applied gradually; the gratification of the venereal appetite & the exercise of the mental faculties should be avoided, also improper & immoderate eating & drinking. A Salivation would be of service in fevers if it were only to prevent excess in eating by the soreness it occasions in the mouth. The sudden appearance of friends should be avoided. 4th A change of place or to another room is proper; for the vials papers pill boxes &c never fail to carry with them a sedative effect. Fluxhams tincture may be given - it is an excellent restorative, a table-spoonful 2 or 3 times a day in wine. A Gentleman who took a Pleurisy by going out a gunning could not get well until the gun was removed from the room. 5th A change of dress - shaving &c gentle exercise in a carriage but not so much as to



fatigue; The sight of places and objects to which we
 have been accustomed is as it were a renewal of our
 contract in life; Jewarm clothes in the day & warm bed
 clothes at night &c. The rules for convalescents are
 1st To avoid infectious places. 2^d purging. 3^d sitting or stan-
 ding in a current of Cold air &c. I shall now enumerate
 the remedies for each of the above symptoms. 1st Wake-
 fulness. This is cured by laudanum 5 or 10 gtt^s or what
 is better a little bread & cheese & porter. 2^d Vomiting, this
 depends upon atony of the Stomach & may be cured by
 taking a little aliment over night. 3^d A defect or excess
 of appetite; the first may be cured by bitters; bark co-
 lumbo, huxham's tincture, elixir of vitriol, & the latter
 by abstinence. 4th Anasarcaous swellings of the limbs, by
 rubbing them upwards & in the morning only. In ulcers
 Pringle recommends stimulating plaisters. 5th Obstructions
 of the Liver &c. by V. S. & Mercury. Mercurial plaisters
 may be applied to the affected part. 6th Ulceration of
 the parotid & inguinal glands, by stimulating plaisters.
 &c. 7th An impaired state of memory &c. These are gener-
 ally difficult to remove especially when of long standing

[The text on this page is extremely faint and illegible, appearing as light grey smudges against the aged paper background.]

& sometimes end in Fatuity; they may however sometimes be removed by gentle exercise & cold bath & "Coastiveness" & Yellow Skin, by Calomel & Rhubarb &c. Regard must be had to the character & conduct of nurses who have it sometimes in their power to give or withhold the medicine or aliment as they please - & that Physician will do best who gives the medicine himself, or if it be not in his power to do so to choose such a nurse as may be depended on.

The following are the Consequences of fever at some times
 1st A sudden growth in the whole body especially in young people 2^o an increase of Fat 3^o they sometimes carry off chronic Diseases. Dr Fordyce mentions the Gout being cured by the Plague 4th Remove barrenness - this is effected by the remaining debility, which accumulates excitability & leaves a broader surface for the stimuli to act on; imparts ^{strength} vigor to the body &c. The Malignant & Gangrenous states of Fever are often the effects of contagion of which the following are the causes - 1st Confinement in one room 2^o Neglect in changing linen &c 3^o In not washing the skin 4th Confined persons together

When thus protracted the disease has been im-
properly treated for it is by no means incurable.

excrements &c. The means of preventing them & contagion are 1st Washing the linen, bed clothes & burying the excrements. Happily however for the United States human contagion is scarcely known.

Intermittents. ^{fever} & Remitting States of.

They are those forms of fever which have paroxysms, intermissions & remissions; when they are without a chill they are called dumb. Continued fevers when they pass the 20th day generally become septenary. Intermittents are frequently protracted to an immoderate period, they have been known to continue 20 or 30 years yet they are not incurable. Intermittents are ^{divided into}

- 1 Quotidian the paroxysms of which occur every day. 2 Tertian having these paroxysms every other day, & lastly
- 3 Quartan which have their paroxysms every third day or in the space of 72 hours. The Quotidian usually attacks in the morning, the Tertian at noon, & the Quartan in the evening. The paroxysms of intermittents are said to anticipate & procrastinate, as when they precede or succeed the usual time, the former shows the increase, the latter

+ The treatment divides itself into
these 3 heads —
treatment before parturition, during
the parturition, & after it.

the decrease of the disease. From the accession to the going off of a fit is called the paroxysm; from the end of one paroxysm to the beginning of the next is called the interval. Intermittents produce dropsy & other diseases chronic & incurable; they are very much influenced by the atmosphere; they have sometimes been brought on by salivation, which sometimes intermits. The Gout sometimes appears in an intermittent form. The Intermittents appear in three forms. 1st In the Malignant 2nd In the highly inflammatory & 3rd In the mild form, all of which require different treatment. A Fever is known to be an intermittent 1st From the hot stage succeeding the chill, & occurring in the season in which intermittents are most common. 2nd By the duration of the cold stage. 3rd By a discharge of bile during the paroxysm 4th By the time of its attack 5th By occurring in climates that are not very hot or cold, it is little known in the West Indies, or in climates uniformly hot or cold 6th The urine secreted during the fit of the Fever is clear while that of the interval is turbid & of a brick colour. † In intermittents if the system be low give cordials, but if it assume

* ^{these} These fevers are sometimes protracted a
great length of time - Mr Bruce had a Quar-
tan 15 years I have read of its continuing
33 years. When it is thus protracted the disease
is not properly treated for it is not by any
means incurable. —

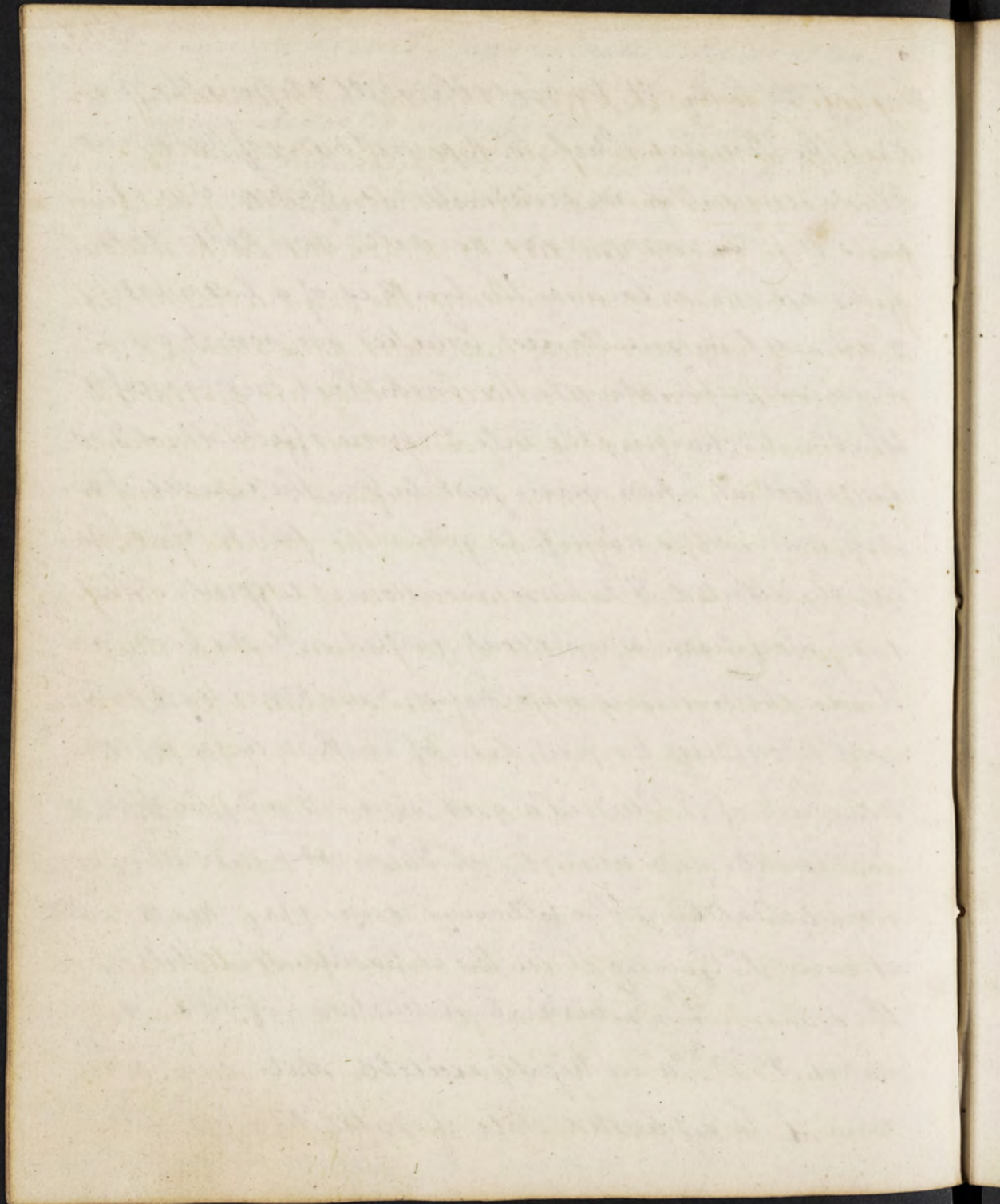
an inflammatory type. V. J. is necessary, vomits, purges &c. The state of the pulse, intensity of pain, vomiting &c should be attended to & should determine the quantity of blood to be drawn &c Dr Holmes says that in the Intermittents of Jamaica he was obliged to V. J. while in the Ty: Fever he never found it necessary. I suppose that in the latter the system was reduced below the point of inflammatory action. We had a case of an intermittent in this Hospital (Robert Rose) which was of the tertian type of 3 Months standing & was by the first V. S. made a continued fever, but by the 2^d the patient was cured, in 8 days from the time of his admission*. Venae intermittants were formerly thought healthy but V. J. is necessary in them too. King James said that Intermittents in the spring were Phsyck for a King, but in his old age he died of one. Being reminded of his saying on his death bed by his Phsyician, he said for a young King not an old one. When they are mild & the pulse Typhus the fit is often prevented by laudanum & diluting drinks V. J. if the pulse be tense, & neutral salts & bitter tea before the first paroxysm, bark before the

* 11 Radical

second & laudanum before the third if the inflammatory symptoms be low & the pulse be Typhus. As mild as the intermittent generally is in the spring it commonly assumes an inflammatory appearance in the fall at which time V. J. is always proper. I have here found it necessary to bleed three or 4 times before the system was prepared for the barks. In intermittents of the mild kind, just before the paroxysm wine laudanum about 30 drops, vinegar & pepper together about a teaspoonful of the latter to half a pint of the former, dancing, hot & cold bath, spirits, sulphur in Sp^{ts} Stramonium or tobacco applied to the wrists, a ride on horse back, sweating before the fire, terror, & electricity will sometimes be effectual by acting on the predisposing debility. The remedies to prevent the recurrence of of the fit are: first¹ Palliative, as bitters of all kinds, ²as-tringents as allum & salts &c. ³Bitters & astringents combined, juice of spiders in bread or the web made into pills, ⁴Arsenic Medical. from $\frac{1}{6}$ to $\frac{1}{2}$ gr. in substance or solution, glue, the tourniquet applied around the thigh so as to accumulate the blood in the superior part of

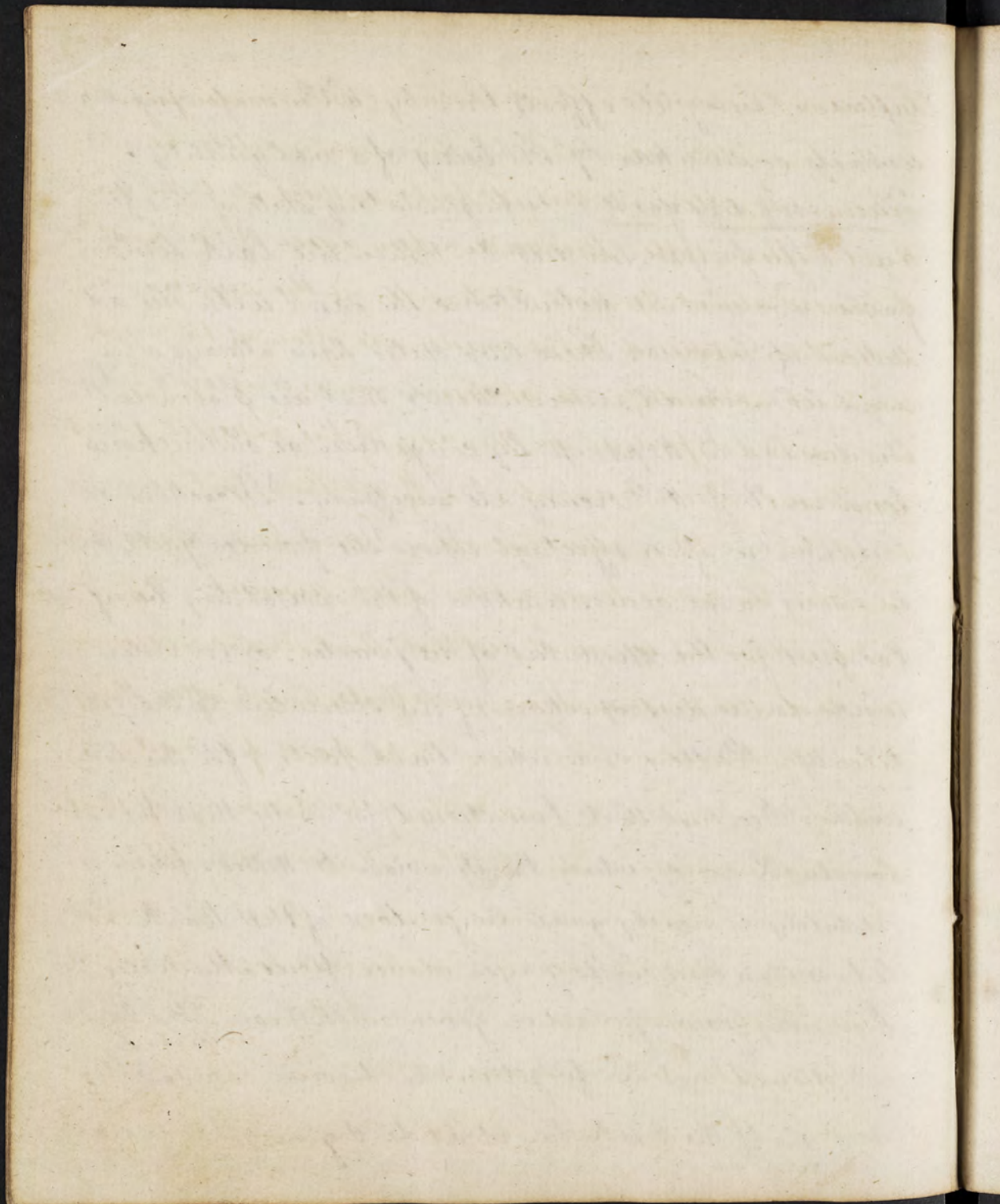
* This noble remedy has retained its exalted
character near 200 years - It may be given in
substance, decoction, infusion or extract - The
Decoction & Infusion sometimes succeed when
Bark in substance has failed
* with Bitters of all kinds Aromatics &c

part of the body. it prevents the chill & lessens the Fever. But the Peruvian Bark is superior to any of these and stands unrivalled in intermittents. When ever it fails it is in consequence of inattention to the state of the system, or because the bark is of a bad quality, or not aided by auxiliaries. Emetics are sometimes given as preparatory to the bark - but purges are preferable, discharging the bile &c more effectually. It is most effectual when given just before the expected paroxysm. It is not safe to give it in tincture unless greatly diluted & to those accustomed to spirits. Children may have a waistcoat quilted with the bark, or it may be given in injections; Sometimes the paroxysm succeeding the first dose of bark is worse in consequence of it - this is a good sign. It may be given with snake root orange peel &c in order to make it more palatable. The following causes may fail to make it cure. 1st Giving it in the inflammatory state of the system - 2^d In visceral obstructions of the Liver - Spleen &c 3^d In an highly excitable state of the system - 4th In exhausted state of excitability. 5th Its



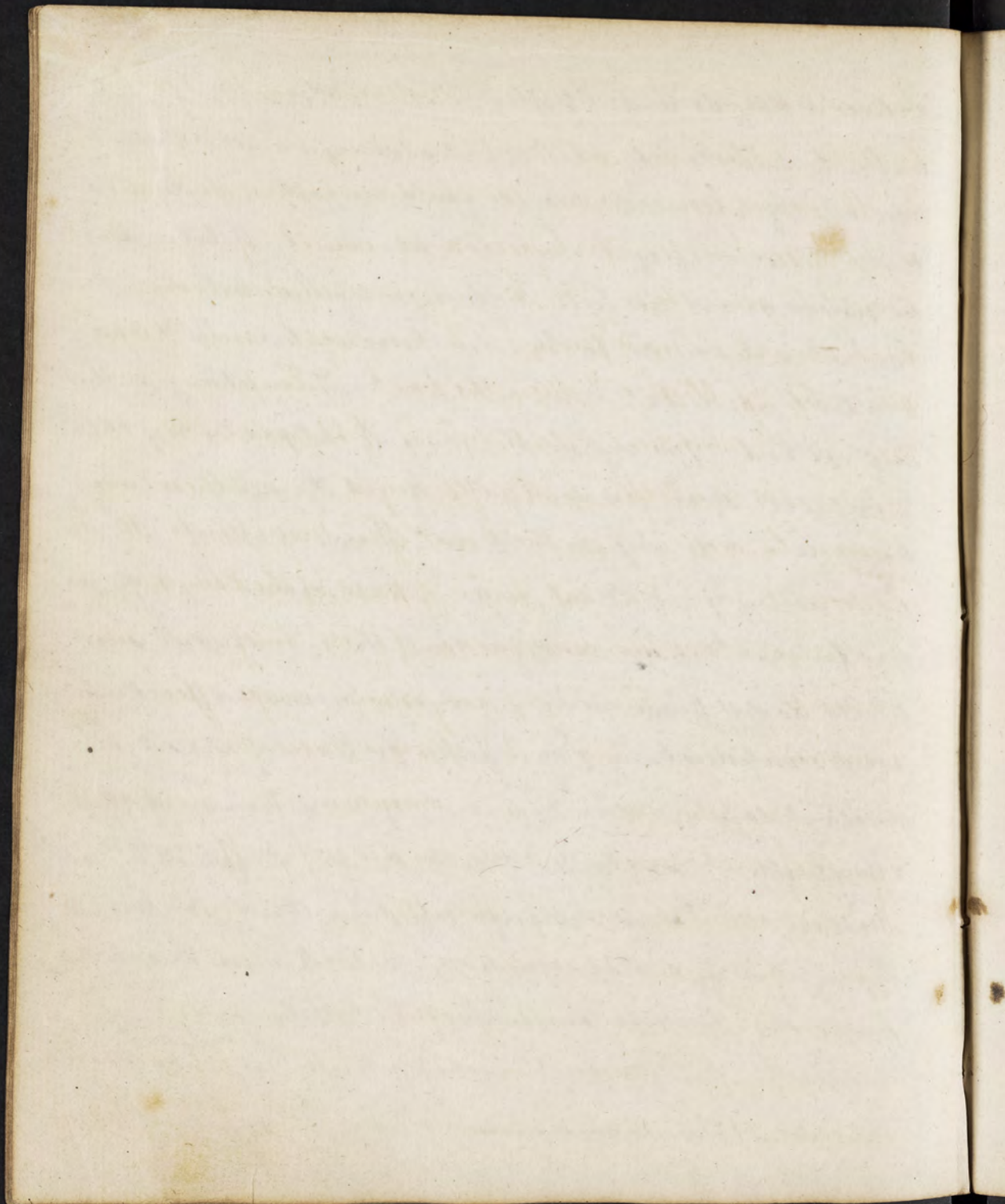
long use losing its effects thereby. to "In inducing costiveness or diarrhoea - 7" Its being of a bad quality.

The remedies for the inflammatory state of this fever are V. J. purges, low diet &c & then the bark seldom fails. For visceral obstructions the same with the addition of Clisters. These two states have always a si-
my blood. In all intermittents that are protracted the disease is kept up by congestion or obstructions. for these V. J. & Mercury, are necessary. Decoction or infusion is often effectual when the powder fails, this is owing to the accumulation of the excitability being too great for the stimulus of the powder, or in other words to the disproportion of the stimulus to the excitability. Bitters cure when bark fails & for the same cause. Recollect that I mentioned formerly, that the willow bark cured when the Peruvian D^o killed. When excitability is nearly gone large doses of the Bark as 4 to 5 O^z a day with ginger cloves flos Martiales &c It is very powerful when given with iron. The lancet should not be forgotten in chronic cases. After long use of the bark lay it aside & give other tonic



bitters a day or two - if it induce costiveness join with it a little rhubarb, if diarrhoea a little Laudanum. If after all this it fails suspect it to be bad & get better - After the cure a few doses of bark sh^d be given about the full & change of the moon. Blisters when applied to the wrists are often of the most evident advantage in obstinate intermittents. Lying in bed & fasting on the day of the expected paroxysm will often prevent it. If all these fail recourse must be had to a new climate. I once knew a man to be cured by going to sea, after bark arsenick &c. &c. had failed. But we must recollect that medicines sometimes do not produce their good effects until after they are discontinued. - I cannot take leave of this subject without taking notice previously of the discovery of that invaluable medicine the Bark. 1st It was discovered by an Indian. 2^d Introduced into use by a Priest 3^d Reviled by regular bred Physicians. 4th Reviled by a Quack & lastly still unpopular in France & Italy. -

Intermittents sometimes appear in ^{disguised} distinguished forms - 1st In periodical headache, tooth or ear ache &



The remedies are V. J. Purging Blisters, & then the Bark
 The tooth if it be decayed should certainly be extracted - 2^d
 In Periodical Convulsions, in children either as Quotidian or Tertians. — 3^d In periodical vomits of bile: Bark
 should be given here. 5th In periodical dysentery here the
 bark should be used freely. 6th In periodical Coma & Apo-
 plexy, by V. J. blisters & then the bark. 7th Eruptions on the
 skin. 8th In periodical Cleft. 9th In Nyctopia or hen blind-
 ness or an inability to see after night & — all these are
 known by occurring in the time of intermittents. 10th In
^{periodic} Dropsy. 11th In periodical fever of part of the body only, as
 in the arm &c. The consequence of these half cured inter-
mittents are 1st Pulmonary congestions cough & fever - the
 remedies for which are V. J. purges mercury &c. 2^d Ob-
 structions of the Spleen, Liver Omentum &c. These are the
 effects of such weak stimuli as are not sufficient to in-
 duce disease, or more frequently the consequence of a
 want of sufficient depletion. Bark Steel &c are here
 proper 3^d Swellings of the limbs, jaundice -
 dropsy &c V. J. mercury frictions &c. 4th Ectic fever - Here
 salivation promises most. — The next form of Fever is —

* ^{has} Typhoid fever differs from intermittents and
the following ~~ways~~ marks

- *
2. Sometimes chills without a paroxysm
3 No chills

The Hectic — This is often confounded with the Intermittent. The Hectic often occurs in the *Phthisis Pulmonalis*, its causes are 1st Ulcers, as in the joints &c. 2^d Schirri or Scrophulous tumors in the glandular parts of the body as in the uterus &c. 3^d Obstructions in the viscera as the Liver &c; gall stones calculi &c. 4th Sharp needles pins &c. — Recollect the Lady cured of a Hectic only by the discharge of a pin from the Vagina. 5th Leucorrhoea & Menorrhagia. 6th Poisons which have been called slow. 7th Ordinary Stimuli rendered powerful in consequence of an increased excitability. 8th Atmosphere rendered impure in consequence of mercurial exhalations. 9th Hamilton mentions its being induced by Nostalgia. & By Pregnancy

* ~~Its~~ marks are 1st They are seldom regular longer than three or 4 paroxysms. 2^d Sweats succeeding chills. 3^d The sweats give little or no relief for the fever continues after them. 4th Chills frequently appear during the sweat for 10 or twelve days at a time. 5th Urine pale during the intermissions & turbid in the intervals. 6th Great pains resembling those of Rheumatism & swelling without

* ~~Occurring more frequently than~~ The Pulse is
Synocha or synochoid, Typhus or Typhoid—

pain & sometimes a sudden disappearance of the swelling. The Ectec sometimes comes on suddenly, but generally steals on gradually, it being sometimes a month before the patient is aware of its approach. There is often a circumscribed ^{red} spot on the cheek, or both, having no intermediate shade between it & the colour of the face which establishes its character. People about 45 are more subject to it than at any other age. The pulse varies very much in this disease, it seldom fails to give warning of its insidious design. The patient in the Ectec seldom complains of pain in the head, which is an almost universal symptom in intermittents. They sit up & without any inconvenience. The arterial system is chiefly affected. Women of 40 to 45 are often subject to the Ectec from schimi & obstructions; wounds, poisons, leucorrhoea &c may all give rise to it. The cause of Fever from these may be an unsuccessful attempt of Nature to carry off the exciting cause. Powerful stimuli acting on accumulated excitability. The remedies are, the removal of tumors, exciting causes &c as nausea - for these may induce it. &c. When the pulse is (for

it should be strictly attended to) Synecha or Synchoid
 or when that cannot be used nitre & other feeble evacu-
 ants. Bark Steel & the Gold Bath are the remedies gener-
 ally recommended. A milk diet has been used to greater
 advantage than either of these, but from the great nour-
 ishment it contains the propriety of its being given
 is doubted. I have used ^{Bitters, Metallic Acids &} every tonic to no purpose. Infu-
 sion of Malt has been used with success. Governor Sparta
 of S^c Carolina was perfectly cured by an old woman of
 this fever with this infusion. The manner in which it is
 made is to take 2-3 or 4 spoonfuls of the sifted powder of malt to which add a quart of boiling water, 2 or 3 spoonfuls
 of sugar & a little wine.
 2 or 3 Quarts of it may be taken daily, drinking sedim-
 ents & all. Arsenic has been recommended here, also dig-
 estals, bark, ^{mineral acids} bitters &c but they generally aggravate the
 symptoms of the disease unless the pulse be typhus.
 From all this it appears that like the spirit of Hercules
 it can only be shaken off by labour & exercise; but some-
 times it is out of the patients power to take this exercise
 from want of means, as improper weather &c. Are we
 then to desert them? May not some new action be cre-
 ated in the system? as by salivation. To prevent the

the first part of the book is devoted to a description of the
history of the country from the first settlement to the present
time. The second part is devoted to a description of the
natural history of the country, and the third part to a
description of the political and social history of the country.

The first part of the book is devoted to a description of the
history of the country from the first settlement to the present
time. The second part is devoted to a description of the
natural history of the country, and the third part to a
description of the political and social history of the country.

The first part of the book is devoted to a description of the
history of the country from the first settlement to the present
time. The second part is devoted to a description of the
natural history of the country, and the third part to a
description of the political and social history of the country.

chills from 20 to 30 drops of laudanum are used with success. in some cases it was the only medicine that checked the disease. The most valuable of all the remedies ~~are~~ riding on horseback, salivation, hard labour, V. & laudanum. Hunter mentions a case which was cured by amputating a diseased limb & which was the supposed cause. Was it by the removal of the Cause or by creating a new action, that this cure was effected? I believe the latter.

Febricula comes next. It is common to the South in Autumn & is known by the name of inward fever. The patient is neither sick nor well. His hands are hot. It is best known by a ^{frequent weak} quick pulse, dry tongue, little head ache & high coloured urine. It only requires the stimulus of a glass of wine to be thrown into an intermittent. The remedies are vomits, gentle purges &c but above all blisters, bark; & V. is sometimes necessary. This is so common to the South that few escape it. —

Critical Days. — In spite of all the changes of climates critical days have continued for ages. they

+ Advantages to be derived from
attending to Critical Days —

were even noticed by Hippocrates. All fevers have critical days which are more plain & distinct in uniform climates Dr Senac calls the tertian the primary form of Fever & its critical days are on the 3^d, 5th, 7th, 9th, 11th after which the Quartan type is assumed & then the critical days are the 11th, 14th, 17th & 20th & after the 20th on the 27th, 35th & 42^d. The Yellow Fever generally terminates on the critical days of 3, 5, 7th. In consequence of extreme debility the crisis is sometimes observed on a non critical day. Dr Jackson informs us that of 60 cases of intermittent fever which terminated favourably, 10 terminated on the 3^d, 10 on the 5th, 20 on the 7th, 10 on the 9th, 5 on the 11th & 5 on the 17th day. Of 9 that died one on the 6th, one on the 7th, six on the 8th & one on the 10th. All continued fevers are protracted Tertians as is evident from the exacerbations on the third day. The continued fevers are more violent on critical days, when the remedies are *Op. &c* which should be attended to⁺. The present mode of practice may derive some advantage from observing the critical days in continued fevers where the remissions are not observed; The fever will be of the greatest force on the odd day, & shew a Centripetal tendency on

those days - then Bleed & purge should be used. If the
 paroxysm of Fever be worse on an even or noncritical day,
 the Physicians attention is so much the more necessary as
 the patient is then getting worse & the fever becoming
 more dangerous. It generally terminates in death in the
 4th or 5th day. When any doubt is entertained about giving
 bleed & other stimulants give them on the noncritical days.
 A very great advantage arises from attending to critical
 days, we may keep up the Hopes of the patient & thereby
 obtain his confidence. The critical days change in dif-
 ferent seasons. In this place the Ty Fever generally termi-
 nates in August on the third day, in Sept^r on the 3^d & 5th.
 In Oct^r on the 5th & 7th & the later in Oct^r the more pro-
 tracted - & this I suppose is applicable to middle States
 Climates. Dr Balfour & Lind with some others say that
 fevers show exacerbations on the full & change of the moon
 & for about 3 days before & 3 days after the change. I
 believe in the effects of the Moon in these cases & Dr
 Mosely says that fevers grow worse at such times in
 Jamaica - from this we may learn to use 1st More
 powerful medicines at these two Lunar periods - &

The first thing I noticed when I stepped out of the car was the cold. It was a sharp contrast to the warm blanket I had been sitting under. I looked up at the sky, which was a pale, hazy blue. The air was still, and the only sound I could hear was the distant hum of traffic. I took a deep breath, feeling the cool air fill my lungs. The ground beneath my feet was wet and slick, reflecting the light from the sky. I walked slowly, my steps echoing on the pavement. The world around me seemed so quiet, so still. I felt a sense of peace, a sense of being alone in a vast, open space. The sun was low in the sky, casting a soft, golden glow over everything. The trees were bare, their branches reaching out like skeletal fingers. The buildings in the distance were shrouded in a light mist. I felt a sense of wonder, a sense of awe. The world was so beautiful, so perfect. I had found a place where I could be alone, where I could be myself. I had found a place where I could be happy.

2^d Avoid more particularly all exciting causes at these periods. 3^d To guard against relapses on those days. 4th Not to give tonics about these periods.

Of the Prognosis of Fever, or of the signs which indicate the issue of fever in life & death. 1st These signs vary in different countries, in different seasons in the same Country; in different people, in different ages & in different grades of the same fever. 2^d There is great difference between the same grade of fever in adults & children which arises from 2 causes - 1st Children are more tenacious of life than adults - hence they frequently recover after a black vomit & half closed eyes. 2^d They are not frightened at the black vomit or other fatal symptoms as adults are. 3^d There is great difference in different periods of life. 4th The same signs differ in meagre & robust habits. 5th In the particular state of health in ancestors. for a person from healthy ancestors will survive a more violent attack of fever, than one from sickly ancestors. — Signs of life & death in general states of fever.

1st The violence, danger & Duration of fever may

be predicted from a knowledge of the violence & of the remote causes, the predisposing, the exciting & the suddenness of the attack without premonitory symptoms

2^o As the union or intimacy of the different parts of the system becomes broken the fever is more dangerous, as in the Hectic, & less so the more general the fever is. In the hectic the arterial system alone is affected & all the other systems are unaffected. We see it too in spasms or Convulsions where but one system is affected.

3^o Paroxysms being worse on even than odd days, those fevers which creep on slowly are worse than those which come on suddenly.

4th The absence of appetite & chill unfavourable, but the coming on of the chill after V.F. is favourable. Anticipating fits unfavourable & preterminating fits favourable. Absence of pain & the patients saying he is too well unfavourable, if a chill comes on in the close of a fever it is favourable. The sudden recovery of strength is unfavourable.

Signs of Life & Death are

1st Direct debility in the beginning of Fever is not alarming but at the close is a sign of death appearing in tremors &c

* 4th Absence of, or immoderate thirst unfavourable, and
subsiding of these with a dry or black tongue, &
thirst for uncommon drinks are all unfavourable. —

Lying constantly on the back, sliding down in bed, a disposition to faint; raising the legs in bed, tremors of the tongue, are all unfavourable symptoms. 2^o Absence of pain dangerous in Malignant fevers but less so than when the pulse is tense & the patient says he is too well; return of pain after depletion favourable. Long protracted pains are dangerous & more so in vital parts than elsewhere, they waste excitability. Pain returning after depletion & occupying external parts in every state of fever, favourable, as they shew a Centrifugal tendency. 3^o Partial heat or Coldness, if long continued, as cold wrists when the hands & fingers are warm is always fatal. Cold feet, & breath long protracted chilliness a sense of heat on the skin, or in the stomach are all unfavourable. 4^o The pulse being preternaturally slow (except in old people) unfavourable, more so in children. An intermitting pulse is dangerous, we sometimes meet with this where there is no danger & where it continues from habit in convalescents. (I must however observe that the intermitting pulse is without danger in some instances) I once saw it attend the whole time of con-

convalescence; the danger is in proportion to the number of intermissions in a given time; when the pulsation is 120 the case is alarming & when as high as 180 few recover. Jones saw the pulse 208 in Hectic Fever which proved fatal. 6th A white tongue is the sign of inflammation, a yellow one of bile, a red smooth tongue, a black & natural tongue are very dangerous in malignant fevers & generally fatal. A Tongue becoming moist after being dry, or becoming gradually moist first from the edges & gradually spreading over the whole is favourable. A hot tongue dangerous, but a cold one fatal. Sores on the tongue or lips are generally safe & favourable, but always fatal when in the Fauces tonsils and throat. Take care that you are not deceived by matters foreign to the disease, as chewing Tobacco, when that appetite remains, port wine, liqueur, jellies &c or a dry tongue made so by sleeping with the mouth open, or moist by drink or by art 7th Eyes half closed fatal in every case in adults except in dysentery. One eye larger than the other, a contracted or dilated pupil, muddiness, glassiness, continued motion & winking of the eyes, squin-

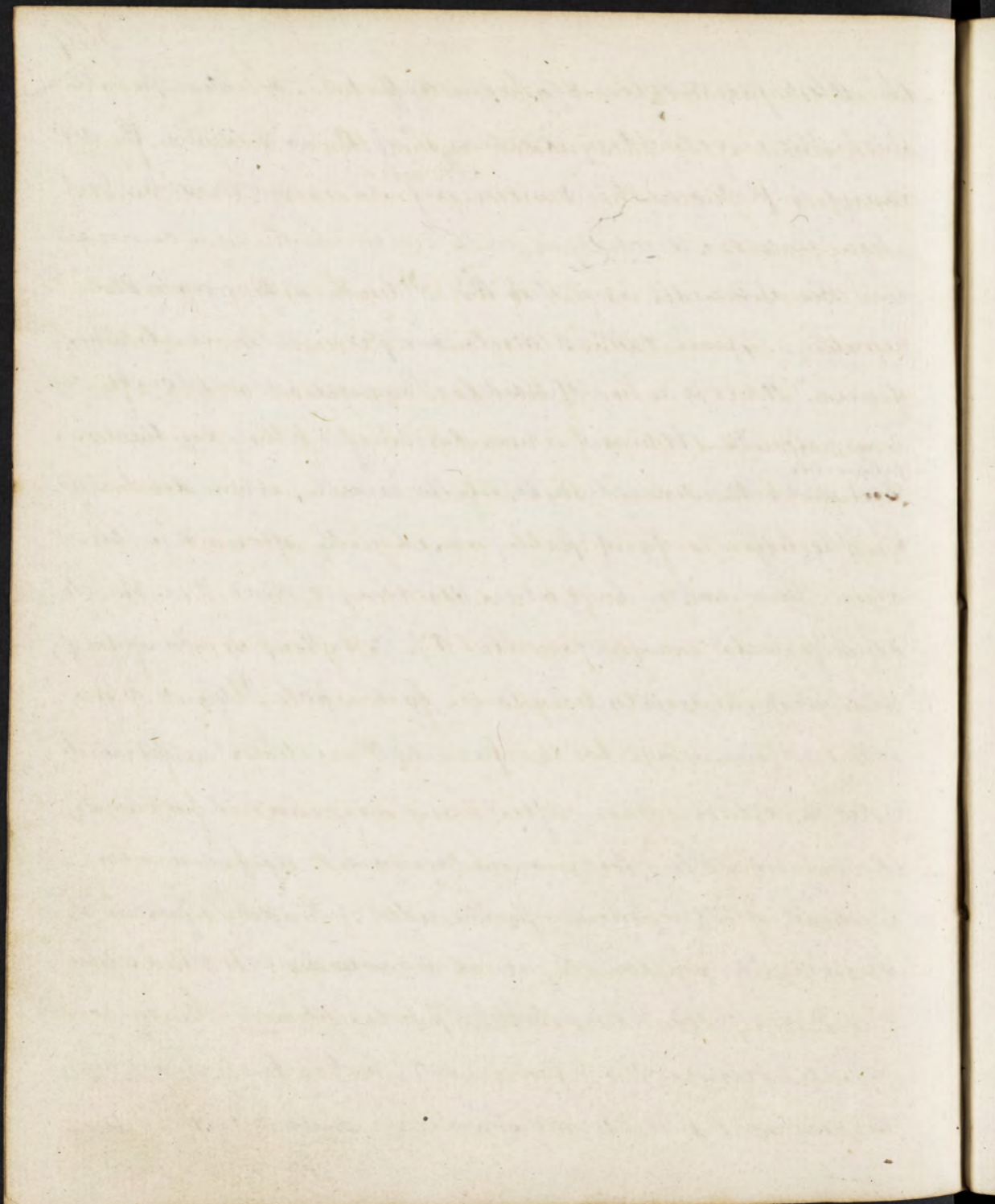
ting

ting, blindness, false or double vision, catching at imaginary objects - matter formed at the inner corner of the eye, involuntary tears, a felon coming & going off the cornea are all unfavourable. The pupil of the eye becoming clear & lighter is favourable. 8th Deafness favourable in mild diseases but the reverse in Malignant. Tinnitus Aurium, pain from slight motion, a revival or extension of the sense of hearing after deafness all ~~are~~ favourable. 9th Super-sensation, insensibility to cold, blisters &c. unfavourable, sudden restoration of sensibility to cold pain &c. Fatal. Great pain attending the touch of blisters in mild fevers are favourable. It is a favourable sign if the patient asks you how he is before you put the same question to him & more so if he asks you about your own state of health. Gaping sneezing picking the nose &c. are favourable, they show the return of sensibility. Return of old pain in former diseases & looking round quickly are favourable - an exception to this occurs in asthma. 10th Hollow eyes, contracted skin on the forehead, a frown, a resemblance of ancestors, the Hippocratic countenance

Those naturally placid are all unfavourable. The feverish countenance is favourable, as is the florid; but not the livid colour of the nails; expansion of the cheeks unfavourable. Asthma will sometimes shew the most of these symptoms of death & not be dangerous. 11th Respiration sometimes slow & sometimes quick, expansion of the Ala nasi, a hollow moaning occurring when awake but worse in sleep, cold breath & the rattles are fatal in adults. 12th A quick sharp & unnatural voice paraphonia palatina are unfavourable, Aphonia more so - but I have seen recoveries from both of them. 13th Lying on the sides after lying on the back always favourable. 14th Old sores returning, eruptions about the mouth, spontaneous salivation & scrotus are favourable. The priapism is generally favourable, but in 93 it preceded death in one case. Dr Haller relates a case in which it continued 2 hours after death. Mahomed died with this symptom. Viscid matter adhering to the teeth, gnashing them, convulsive tremors &c are fatal. also hiccup in Malignant fevers but not in mild. 15th A return of appetite for food, tobacco, coffee &c are favourable.

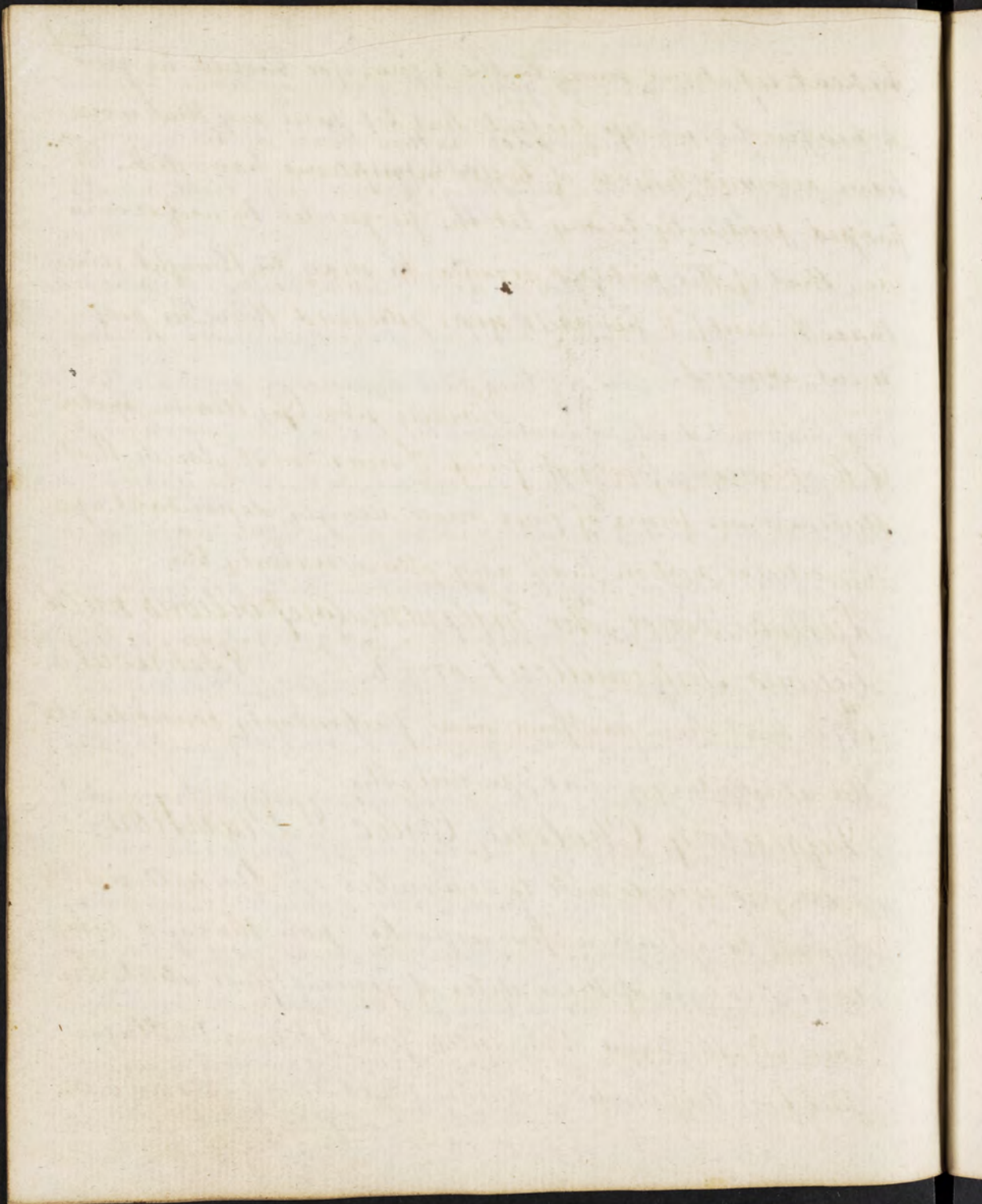
x A stool at the usual hour in the morn^g - is favourable
shewing that Nature is recovering her empire over
the system

16th Obstinate Costiveness from defective secretion, white stools, the involuntary discharge of stools & urine, the discharge of flatus without noise are all unfavourable, but when flatus is discharged with noise it shews a command over the sphincter ani, this the Ist learned from an old woman. Green & black stools are favourable in bilious fevers. * Stools are healthy when they are bene odorata & bene colorata. Worms when discharged alive by the anus ^{favourable} but not when discharged by the mouth; when discharged in the beginning of fever mixed with slime & when alive favourable, but when discharged dead & in the close of fevers & unfavourable 17 Vomitting is alarming, 18 also bloody urine, suppression of d^o, pale, high or coffee coloured urine are all unfavourable. Milky urine denotes a disease of long continuance, when it is cloudy it is favourable because it shews the sign of a crisis. Gravelly matter adhering to the sides of the pot is favourable, this gravelly matter in calculus cases falls to the bottom & in fevers sticks to the sides of the pot. 19 Sweats in mild fevers if universal are favourable, but if partial are not so. An acid putrid or cadaverous smell or taste of the



sweat unfavourable & generally fatal. I have known a recovery after this *nadori* rather than *sudor* in fevers Abscesses & glandular swellings ^{attends} favourable. Cold sweats unfavourable.

- I come now to the signs of Life & Death as they regard the mind - Apathy unfavourable. A silent delirium more alarming than a talkative one, if this last symptom occurs after being suspended it is favourable but if they continue throughout the disease, this inference cannot be drawn - Good temper is favourable, an enquiry after news, the hour of the day or night, a disposition to be removed, or to change beds are all favourable. A great desire of life & sleep of moderate length are favourable. Want of solici- tude & friendship for the Family & relations unfavour- able, but their return after being suspended is favourable. A slow answer to questions, wakefulness & unfavourable a return of ill humour favourable. Sudden cures are sel- dom wanting especially in chronic cases. All the symp- toms may deceive us with a few exceptions. - I have seen recoveries from the most unfavourable symptoms and vice versa. A Physician should never forsake his



patient whatever may be the signs, nor should he give a prognostic unless pressed, but let him say that worse have recovered & those of better symptoms have died. If pressed positively to say let the prognostic be unfavourable, that if the patient recover he may be thought wiser than himself & his skill more esteemed than his judgment admired.

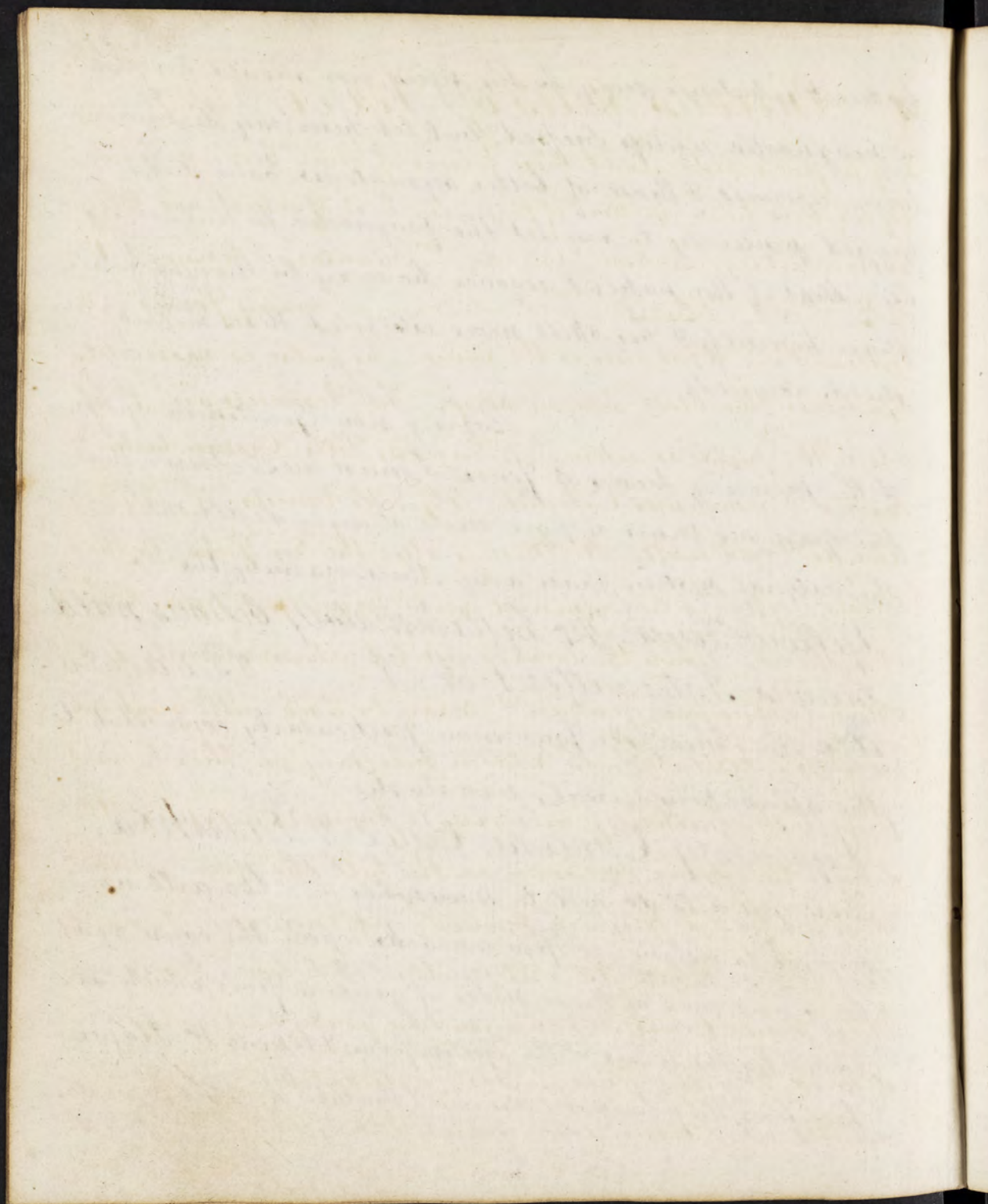
Having now Gentlemen spoken of the primary forms of Fever I must next observe that there are six forms of Fever more strongly dependant upon the arterial system than any others - namely the

Yellow Fever. The Inflammatory bilious, mild bilious, Intermittent or A - - & Febricula.

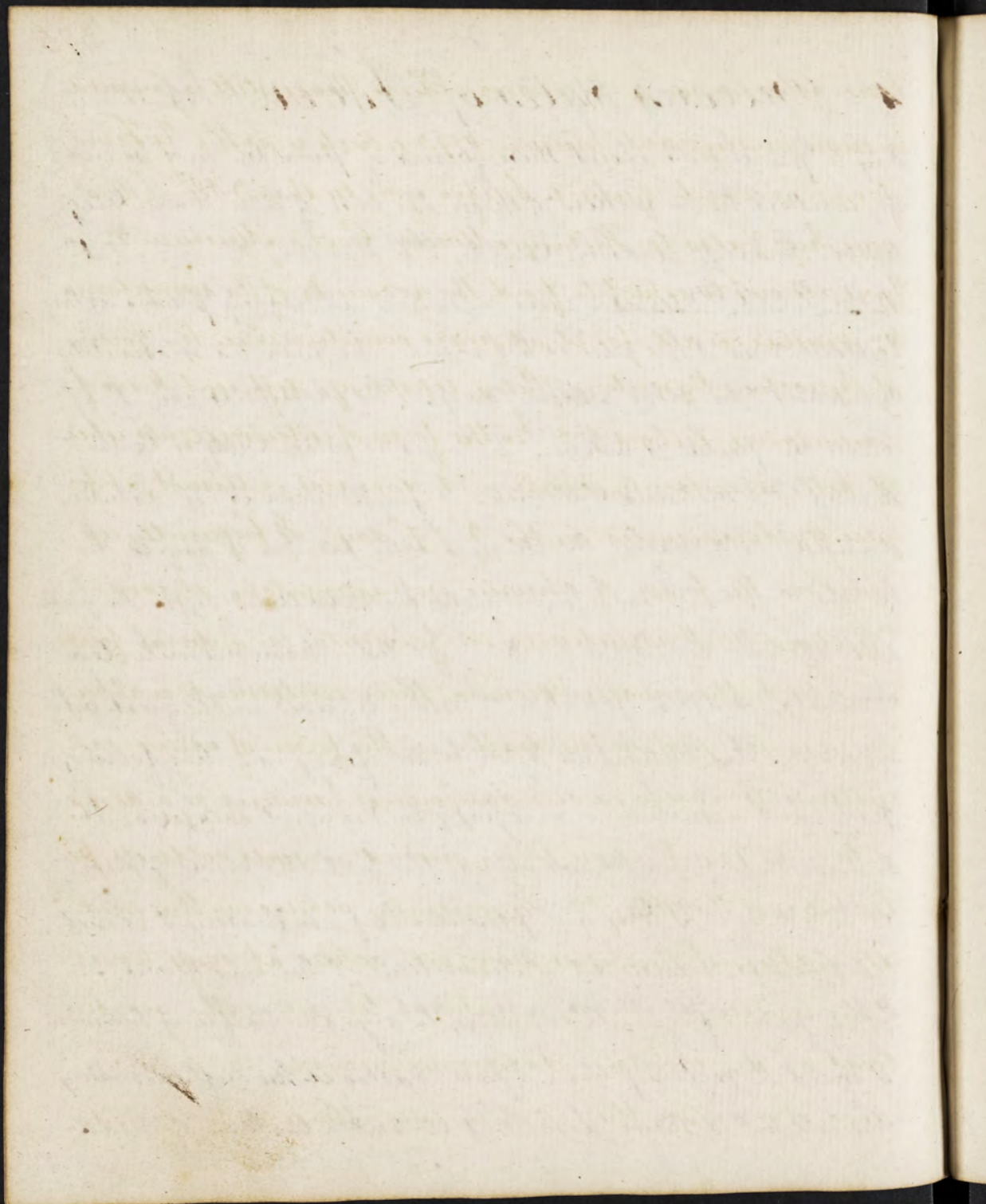
Also that there are four more particularly connected to the alimentary Canal, namely the

Dysentery, Cholera, Colic & Diarrhoea. -

There you will do well to remember. We will now proceed to deliver a few remarks upon the cause symptoms and cure of those states of general Fever which are known by the name of the Yellow Fever, & bilious & Plague, Jail fever, the fever from Opium & the bite of rabid animals.



4th Bilious states of Fever. - I shall only say a few words about these forms of Fever because so many writers have spoken of them, the best of which are Clegg-horn, Kellary, Jackson, Clarke, D. F. Hunter, & Senac. & 1st of the Mild Bilious. This assumes as many forms as the Yellow Fever, & the cure is the same. The pulse is moderately synochus & the blood seldom sordid. The Remedies are 1st 2^d when the pulse is active. 2^d Purges as Salts. Cremor tartar & Scenna & sometimes Calomel. 3^d Gentle Vomits. 4th Diluting drinks & cold water. 5th Blisters after the 3rd or 4th day to the wrists, & after it has assumed an intermittent type the bark is a specific. when the bark is rejected chamomile tea columbo, quassia, gentian &c may be used with great advantage. Salivation is seldom necessary in this form of Fever, but sometimes necessary to prevent relapses; the sooner this fever comes on in the fall the more general it will be. 2^d Dry air produces inflammatory & remitting fevers, moist a^d Intermittent & bilious fevers. These forms frequently change to a grade half way between a mild & yellow fever. I have called it the inflammatory remittent & have described it under the head of break-



bone fever in my Inquiries. These fevers still assumed
 a more malignant form in 1793 which was the Y. Fever
 (for an account of which I refer you to the 3^d & 4th Vol: of
 my Inq:) also to Heltary, Mosely, Cox's Museum &c.
 You are not to expect to find the accounts of the symptoms
 &c. similar in all, for it appears sometimes in the form
 of Synocha Dysentery, Palsy, Apoplexy, different kinds of
 convulsions, Eclipses &c. In the form of intermittents when
 it kills as certainly as when it does not intermit; it fre-
 quently terminates on the 5th & 7th day. It frequently ap-
 pears in the form of chronic inflammatory, chronic
 Typhoid &c. & sometimes in febricula, in a dumb form
 in which the muscles preserve their excitement; walking
 even until just before death; in the form of universal
 yellowness which is not dangerous, fainting or a dispo-
 sition to faint upon being moved, sweats coldness, pe-
 techiae on the skin &c. It generally occurs in the mid-
 dle of August; the pulse slow, not active at some times
 & the reverse at others, a natural tongue with great
 heat on the skin are dangerous symptoms; a person
 died of pain in the toe only, who after being opened

shew'd evident signs of great inflammation in the Stomach. The exciting causes of this are swimming gunning, vomiting by eating mushrooms, sleeping in a damp place, fractured leg, relinquishment of former occupations; there are what I have collected in this City especially in 1793 at which the system was like a Florence flask. In consequence of the brain having white serum in its ventricles & there being great marks of inflammation in the Stomach, when no vomiting takes place it has been supposed that the black vomit does not occur till after the death of the Stomach.

The Remedies for vomiting are R. J. Chamomile tea, milk or milk & lime water of each equal parts, this has allay'd a vomiting where every thing else has failed; sweet oil, thin milk & molasses, Alkaline salts, Oatmeal roasted & tea made of it, spirit of turpentine 10 drops with sweet oil or molasses, White sugar Tiz Laudanum 30 drops mint water Zix made into a Gulep has been highly recommended; Total abstinence, by it the stomach puts itself as it were into a good humour Blisters to the pit of the Stomach, wrists or ankles, milk

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

℥ lime water injected into the anus, large doses of Opium by the mouth & rectum, cayenne pepper. For a diarrhoea, testaceous powders &c For a pain in the head ice in bladders or cold water to it; injections of cold water for pain in the bowels; in the stomach, gentle frictions of sweet oil & laudanum; for Coma - cupping, blisters, or a plaister of mustard all over the head. —

2^d The Plague. This is the offspring of miasma. The symptoms differ from different causes, as habits, customs, climates &c. There is no form of Yellow Fever in which the Plague does not appear; it appears in all the thirteen primary forms of Fever. It is altered not only by Climate &c but by diet, dress, manners, Religions &c It prevails in no part where there is no animal or vegetable putrefaction. It is not specifically contagious; it appears in dysentery & mania. It never was or ever will be exported from one Country to another. It lessens as the intercourse between nations increase. The causes which prevent it here are 1st the highly cultivated state of the country. 2 The great consump-

tion of vegetables. 3^d Better accomodations 4th Cleanliness. It is kept up in Egypt by the following causes. — 1st The uncultivated state of the country. 2^o moisture. 3^d Filthiness. 4th Bad constructed Cities, as narrow streets &c. 5th The doctrine of Predestination. 6th By believing in its importation. It is checked by cold & hot weather like the yellow fever & by rain. It appears after the recp of the Nile & goes off about the middle of June. — The Remedies are V.S. This is sometimes useful, tho' the system is generally so prostrated as not to admit of depletion. sweating, purging, vomiting. &c. Opium — Palliation is too slow to do good. The Plague generally terminates in sore throat & mouth, Diarrhoea Influenza, Gonorrhoea &c (see Volsterns Medical Reports). —

3^d Sail Fever. This is sometimes attended with 1st So great a degree of morbid action as to require 2 or 3 bleedings, or even more when the complaint is attended with obstructions. 2^o It appears sometimes in Chronic or acute dysentery. 3^d It is attended occasionally with inguinal swellings which have been mistaken

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

1857

for buloes. I should have been deceived but for Monroe in the Army which I kept continually by me when Surgeon to our late army 4th It spreads by excited matter & cold weather; approaching a warm climate drives it entirely off. Dr Hunter informed me that the soldiers never had it when they kept in the open air 5th It is sometimes communicated by one in whom it is dormant, this may be believed by the following circumstance. I knew a case of a man who was never affected by handling a poisonous vine, but his wife always felt the effects of it altho' she did not touch it. 6th This fever may be shunned by avoiding all the predisposing & exciting causes mentioned. It may be cured by accommodating the remedies to the different states of the system, when the Pulse is Synocha, Synochus, Synochula or Synochoid. — We will next speak of —

4th Fever induced by Opium. — This is truly a Malignant state of Fever. The Remedies are 1st V. S. when the pulse is active or much depressed 2nd Emetics, when all others fail a feather may have some

* This is ~~an~~ Fever of the highest grade, it is generally accompanied with symptoms of great Malignity & inflamm^y deathen^y. It is to be cured in the same way as Malign^t fever from any other cause. It affects the whole system but chiefly the Larynx & Glottis in its latter stages a spasmodic contraction or sudden spasm of the glottis by stopping respiration Dr. Physick thinks is often the immediate cause of death. He has very ingeniously proposed laying open the Larynx in this case below the Glottis & introducing a Canula that respiration may go on. The Larynx & Glottis being so peculiarly affected accounts for mad dogs scarcely ever barking. If the dog barks before he bites it is a pretty sure sign he is not mad. Like the Plague this fever in different constitutions & different countries have yielded to very different remedies. Sometimes it has, if we may believe authors been cured by means of Stimulants - but oftener by depleting remedies - V. S. Purges strong Vomits. If the pulse be active go on depleting, if otherwise Stimulate suddenly - Plunging the Patient in hot water, has it is said cured - What would be the effect of inducing inflammation on the skin in this fever? - For preventing Hydrophobia after a person is bitten (Dissections show the Trachea & Glottis to be inflam^d) by

effect indeed tickling the throat with a feather is the most successful in the first instance. The larynx may be retentive of its sensibility when that of the stomach is lost. 3^o Cold Applications to the stomach when there is much febrile heat. 4th Cordials after depletion the best of which are Ardent Sp^{ts} and Others. 5th Stimulating injections & Cataplasms to the Feet. 6th Flagellation.

5th Fevers produced by the bite of a Rabid Animal. (For a full account of this I refer you to the 2^d Vol: of my Inquiries).

6th Fevers produced by.

Poisons. There are three kinds of poisons — The Animal, Vegetable & Mineral. The Remedies for there are 1st Such as act by the Mouth or Bowels. 2^d Such as destroy the effects of the poison by forming a mixture & 3^d Such as destroy the effects of the poison by forming a new & less dangerous action. The first are Vomits which may be excited with the finger feather & White Vitriol is the quickest of these medicines in its operations — Snuff may be used when other medicines fail, in the dose of about 6 grs to discharge from the
Bowels

by a rabid animal there is no Specific. No
not even a salivation. The best preventatives
are immediate excision of the wounded part
frequent ablutions, Keeping the wound open &
running a long time —

~~not so much~~ ^{not so much} ~~not so much~~
* The worst form of Malignant fever is excited
by the bite of the Rattle Snake — To the state
of this fever the remedies must be accom-
modated

bowels, purges of sweet oil & milk & water, diluting drinks. To give those of the second head such should be better as would make a neutral mixture. The remedies under the 3^d head which are to cure by creating a new but less dangerous action, are Opium & Ardent Spirits. The cures that have been made by these remedies show us that we should never desert our patients in this disease. When these remedies fail, excite an action on the skin; recollect the dog cured of *mex vomica* by flagellation, & the 2 cures given by Darwin of the effects of flagellation*. When the fever is slow treat it as fever from other causes. sweating has been attempted as proper, if the poison shew a tendency to pass off this way sweating should be used, for this purpose *Supentaria seneka* &c. but if they cannot be procured readily the Vol: Alkali should be used. Morely says that an action excited in the Stomach acts in the same way as a cure when the poison has been taken by the skin, as an irritation excited on the skin does when the poison has been inwardly taken. Sometimes the poison acts prima-

* The Patient will faint perhaps after the
1st 2^d or 3^d bleeding, but not afterwards —

rily on the skin inducing erisipelatous inflammation & morbid excitement in the blood vessels ^{and pores} ~~the~~ ^{of}. We shall now consider certain states as they occur in malignant fevers. There are

1st The Sweating State of Fever. This occurs in many diseases, as Pleurisy, Consumption &c it may be either with strong or weak morbid action, that with strong occurs in the waking state, in the Yellow Fever, Pleurisy Intermittent Fever &c & may be called the Tonic sweat; that with weak occurs in the sleeping state, in the Plague & hectic fever & may be called the Atonic sweat; they are fetid, yellow Green acid &c In cases of great morbid excitement where the sweating state comes on V.G. would be proper, sitting up in bed &c In weak morbid action the remedies are Elixir Vitriol & other tonics, & even sometimes in the Typhoid state of fever a small V.G. will prevent sweats.

2^d The Fainting State. This occurs in all those fevers of a violent & malignant form. The Remedies are small V.G. emetics &c.

3^d The Burning State. This has been called

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side. The text is arranged in approximately 20 horizontal lines across the page.]

cause, but it is rather the consequence of disease; it is the calor moriens, the blood when trickling down the arm is burning to the patient, It is a symptom of Malignant Fever. I have known the heat to be very great when the pulse was imperceptible, hence we may determine that heat is not proportioned to the violence of the circulation of the blood. The Remedies are V. & cold applications

4th The Cold & Chilly State. This is often protracted for several days, is sometimes partial & sometimes general. The remedies are V. & this has often removed the cold from the feet & after V. friction is an useful remedy. —

5th The Petechial. This is the Malignant form suffocated on the skin & the system is generally prostrated when the petechia appear. These petechiae are to malignant fevers what the prickly heat is to the mild bilious. The Remedies are those used in the prostration of the system. — Bark Wine, Cordials. The next form of Fever is the

Intestinal in which are included Diarrhoea, Dysentery, Cholera Morbus & Cholera — & first of —

Diarrhoea. Here I shall confine myself to the acute & not the chronic. This occurs more in the seasons in

which cold nights succeed hot days, this is a check to the perspiration determining it to the bowels, also in moist weather. It is occasioned by eating unripe fruit & that in large quantities; by large quantities of fresh meat as food after being accustomed to salt meat; putrid meat &c. The remedies are frequent purges, diluting drinks & after which laudanum internally or about 40 drops with Ziv of flax seed tea injected up the rectum.

Dysentery. This is a higher grade of Diarrhoea. It is to diarrhoea as Gout is to Rheumatism or Consumption to Catarrh. The discharge of mucus alone from the intestines in dysentery may be called a Gonorrhoea of the bowels. As the dysentery is often preceded by diarrhoea so it often goes off in that form. The causes of Dysentery are the same as those of diarrhoea. Bad wheat has induced it. Sour wine has done the same, human effluvia produces it too. It sometimes comes on as the diarrhoea with focal discharges, but more frequently by costiveness & no discharge of bile. The Patient is attended with great pain & inclination to stool, the perspiration is generally stoppt, the discharge is sometimes

mucous without blood & vice versa. The pulse is sometimes quick & at times active; the pain in the bowels is sometimes up to the point of the Sternum at other times low down in the rectum & sometimes in the whole canal.

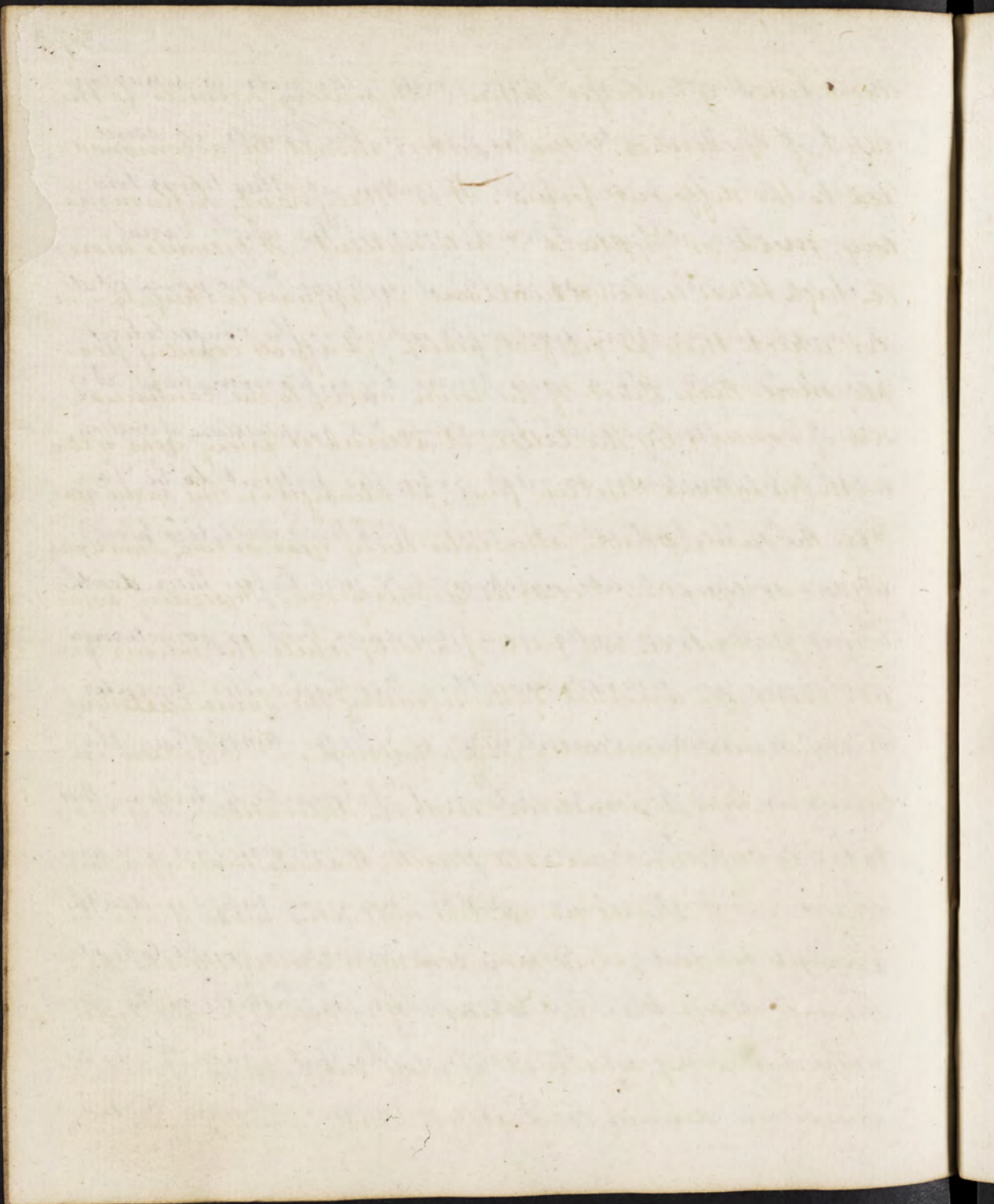
It is sometimes general in the Intestines & no pain at all, a membrane is often discharged which is the coagulating lymph formed into a membrane by inflammation; it is sometimes attended with faintness & a suspension of motion, weakness, sometimes so great as for the patient to be fatigued by the least exercise, even speaking will tire him.

Again we see patients walking till just before their death.

It generally terminates in a few days, but is sometimes protracted for several months. It is then called Dysentericula or Chronic dysentery. — Dissections shew the

following marks in dysentery. 1st No marks of disease; this is noticed by Dr Zimmerman; the bowels in this case were diseased beyond inflammation; we may suppose death here to have come on before inflammation could take place.

2nd Inflammation 3rd A Membrane 4th Pustules on the intestines 5 Tubercles 6 Gangrene, tho' this is rare 7th The inner membrane of the small intestines abraded 8th dis-

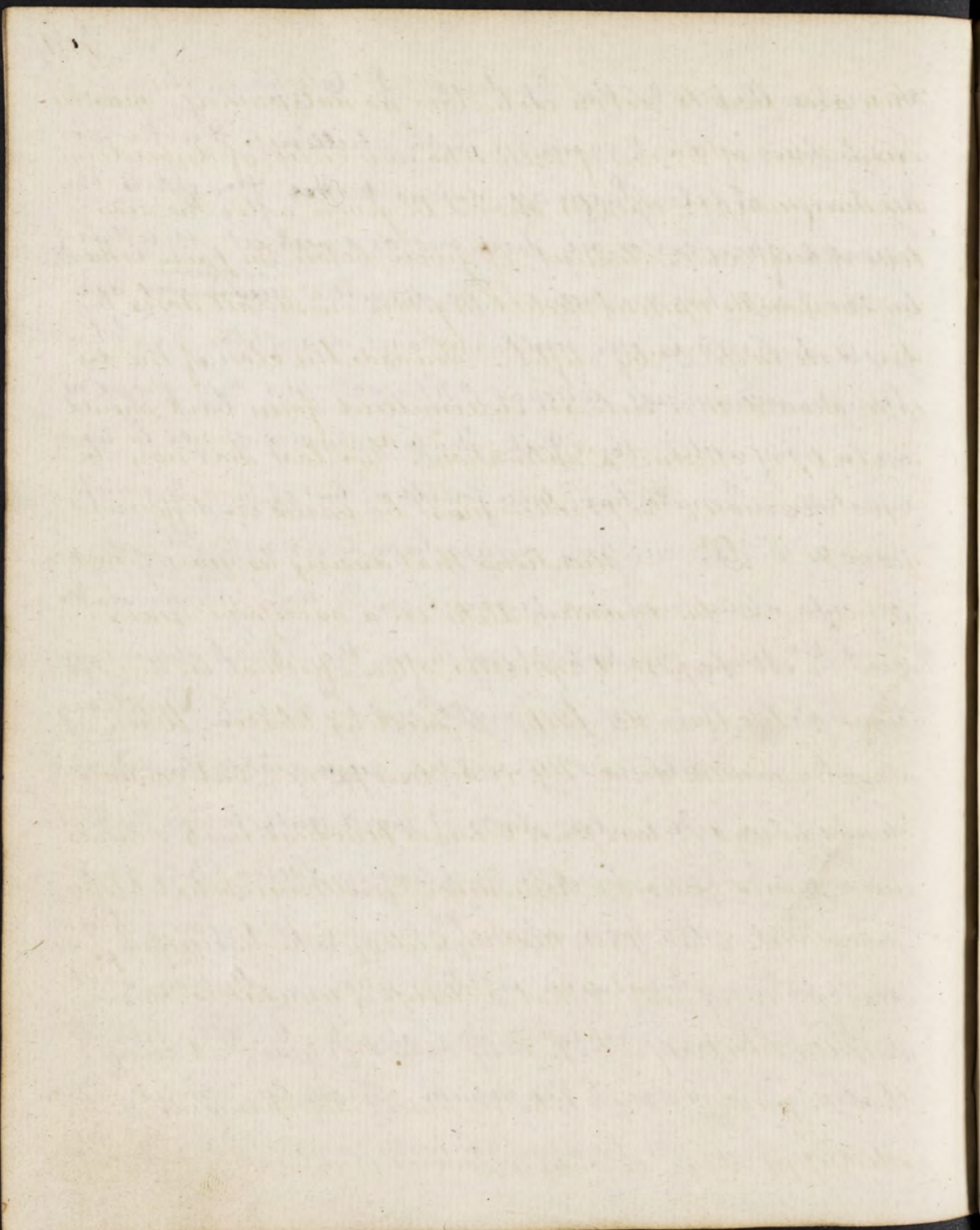


-eased Liver & enlarged Spleen - Dysentery submits to the laws of Epidemics, & the remedies should be accommodated to the different forms. It is Malignant, Inflammatory, mild or Typhoid & Intermittent. It prevails more in high than in low situations, it appears in heights under which there is perfect health; it affects country people more than those of the town owing to the continual use of Cordials by the latter; it alternates every year or two with the bilious & Yellow Fever; it changes in the same year, & in the same person alternates every year or two; Sometimes begins as dysentery & ends as bilious fever. Dysentery sometimes prevails in one part of a City while the bilious Fever exists in another both requiring the same treatment. It sometimes terminates in Ophthalmia. Dr Clarkson informs us that it sometimes ends in Salivation. It is more fatal to Children than old people than to those of a middle age. It spares no age nor will any mode of life be exempt from it; it is more common among the blacks of the west Indies than the Whites. If it occurs in the beginning of a rainy season it is more easily cured & vice versa. There is a disease in Quito in South America which is

similar to dysentery it is called (Bal Melle or Veho) it is cured by thrusting a part or the whole of ~~a~~ lime up the rectum; this is mentioned by Baron Humboldt. Are there remedies to prevent this disease? Yes. during its predisposition, a gentle purge will prevent it. purges of salt water will have the same effect. I once heard of a commander who carried his soldiers to salt water every morning & made them drink half a pint each. this practice was an effectual preventive to the disease. When salt water cannot be obtained Glaubers salt may I believe with equal propriety be used. The remedies should be suited to the state of the system & the prevailing Epidemic. When the system is prostrated below the point of reaction in the first stage of the disease all depletions should be avoided; purges vomits &c have frequently caused death in such cases. The proper remedies are wine, bark laudanum, cordials &c & cordial injections. —

Inflammatory state of Dysentery. Here we must again be regulated by the Pulse, Pain &c. V. S. is generally requisite. I have caused this operation to be performed from 1 to 20 times in a patient with success, this

was when it preceded the Ty. Fever. Dr Cleghorn always used to bleed when it came on with chilliness & with no discharge of bile. Purges are always proper & ought to be repeated often, castor oil, lint seed or sweet oil - crystals of tartar & sulphur are proper. The domestic ^{Laxatives} ~~medicines~~ are fresh churned butter milk in large draughts. Sir John Pringle recommends Colomel & Rhubarb but they should never be used until others fail. To assist clysters should be used repeatedly. Vomits have been forbidden, but if there be much nausea they are necessary. Limes have been used, salt water, sal soda alone cured our prisoners in Tripoli. Are sweats proper? Dr Mosely speaks highly of them tho' I think them injurious unless their use be pointed out by nature. Diluting drinks should be used, flaxseed tea, gum arabic, Hartshorn, mullein tea, rice water; shells of hazle nuts, tallow & starch in warm water. Perhaps the following prescription which varies but little from what I have just told you before will be the most valuable in Dysentery. - Mutton suet with milk, hazle nuts, tallow & starch; Chalk, salt of tartar, gum arabic & laudanum should be injected. Blisters are proper to be applied to the wrists or belly. The



skin and bowels act on each other as antagonising muscles. I have heard of 2 cases of men who were cured of dysentery by being whipt. Opiates should be given after the reduction of morbid excitement; if given before the pain is thereby increased. Opium should be given in small doses by day & in large D^o by night. Towards the close of the disease should run into an intermittent form bark should be used; if chronic a salivation. This last has now become common. The practice must be varied in different years &c. D^r mentions that during 60 years practice he never saw the dysentery alike in a successive year. — Here I will propose 2 remedies often effectual in this disease. 1^o Lying on the belly. 2^o Smoking Tobacco. When it assumes a mild form V. J. is seldom proper, but cordials should be used. When pain becomes periodical bark & laudanum should be used. Remember Gentlemen what I told you a little while past, that dysentery like the yellow fever changes every year & that a change of remedies is consequently necessary. V. J. may cure this year & it may fail the next & purges take its place. The Spaniards on the Mississippi river seldom recovered of dysentery while

+ *Tenesmus* arises from 4 Causes - 1st From acrid
substances in the bowels as bile &c 2^d Ulcers 3^d
Affections of contiguous parts, as the bladder, Va=
gina Uterus &c - 4th *Sebolia* or what is called
ball stools & *Subicula*

The Americans are almost sure to recover. This is owing to the influence of diet, as the Spaniards had for their breakfast 4 pods of pepper, one herring & a spoonful of sweet oil mixed. In cases of great weakness the patient should not rise from his bed to evacuate his feces, a bed pan, old clothes or a piece of soft leather should be used to receive them in.

The pain of tenesmus may be cured by an injection of laudanum & sweet oil a spoonful each. Equal parts of sweet oil & laudanum applied upon a bit of tow to the anus is useful in tenismus, it acts like a charm in easing the pain. &

The Chronic dysentery is cured by a salivation, riding on horse back &c. Dysentery ends 1st in health 2^d In chronic diarrhoea 3^d in Palsy, 4th in Rheumatism 5th in dropsy 6th in Tetanus & tympany. The favourable symptoms are 1st discharge of dead worms 2^d Suppression of Urine. 3^d Feces intimately mixed with blood which shews that some vessels or vessel high up in the intestine is broken. Hemorrhages are more alarming ~~rather~~ countenance, restlessness, hiccup & a squeaking voice are all fatal symptoms. Is this disease Contagious? Only by excretion. It is most certainly contagious from human miasma. I

* in the upper limbs as well as pain in the
Stomach & Bowels

deny that the dysentery ever spreads in a way similar to that in which the small pox is disseminated. I shall conclude my account of this disease with 2nd remarks 1st That when left to itself it is generally fatal. 2^o That there is no disease so completely within the powers of medicine

Cholera Morbus. This is a form of Bilious fever. It is attended with a bilious discharge upwards and downwards, it is also attended with cramps &c. it is excited by summer fruits, night or cold air &c. The remedies are to be suited to the reigning epidemic, pulse &c. Since the year 1793 I have bled children in this disease with great advantage. Opium in this state does harm. In a moderate state of the disease, cordials are serviceable, as warm toddy, peppermint tea &c. warm embrocations on the abdomen. Hot drinks &c. Milk will stop the vomiting when other remedies fail.

Bilious Colic. This is known 1st By Bilious fever being epidemic or preceding it 2^o By being ushered in with a chilly fit. this distinguishes it from common Colic 3^o By a discharge of bile upwards & down.

* This is the worst state - No cough is a sign
of inflammation of the Pleura * must have

off from the worst state
of inflammation
of the Pleura

wards 1st By the pulse being more or less tense & active. It has occurred in Sporadic cases in time of our yellow Fever. The remedies are B. G. Purges injections, blisters, warm bath, if all these fail then by a salivation, this last unlocks the bowels as soon as the mouth is touched. Thus Gentlemen I have finished our account of the Summer & Autumnal diseases. For the means of obviating the effects of miasma in producing those diseases. I refer you to my Inquiries 4th Vol: -

We proceed next in order to treat of the Pulmonary forms of Fever, in which are included, Pulmonary Catarrh, Influenza, & Pulmonary Consumption, & first of

Pneumonia Vera. In this the pain is not always confined to the side it extends sometimes to the shoulders, kidneys &c. 2^o We see this disease sometimes very acute without pain. 3^o Without cough as in the yellow fever*. In the most violent cases when the Stomach & Lungs are very much excited they are diseased below the point of reaction & sometimes below the point of sensibility & consequently a cough cannot be produced 4th The pulse is often

* The distinction of inflammation of the Pleura between those of the lungs is altogether unnecessary

* I attended a Patient in the 22nd attack

Measles, Dysentery & Diarrhoea suddenly checked, repelled eruptions suppressions of Habitual sweats, & menses - Malignant fever falling on the breast

On Dissection - The Pleura is sound dense or dark - at times it adheres to the lungs when it is either sound or inflamed - Lungs at times shew no none mark of disease as when suffocated excitement transcends inflammation -

© I have taken upwards of 10003 of blood in 2 days & have bled 4 times in one day with the very best effects. If not called sooner we may bleed in its latter stage I have bled after the 5th day with advantage - The state of the system alone sh^d influence us

© The bloodvessels being often more excited on one side than on the other

depressed; the system is then prostrated below the point of reaction. In this case the pulse is raised by V.J. which indicates the necessity of depletion [#] 5^h A person once having Pneumony is more subject to it afterwards this is by leaving the lungs in a weak state & cold air & Fever always determines to a weak part ^x 6^h It rarely occurs in countries uniformly cold or warm. In consequence of the uniform Climate of Canada it is seldom there. Pneumony is a symptom of or is induced by Gout, Influenza, Small pox, catarrh, contusions of the breast, gun shot wounds &c. [#] 2^o The remedies are V.J. accommodated to the states of the system. Certain states of the system require the loss of 8 OZ of blood while others require from that quantity to 140 OZ. Some authors say it is improper to bleed after the 4th 5th 9th or 11th day but they are mistaken. V.J. is necessary as long as the pulse indicates it. from its tension fullness &c. or as long as there is a fever (more bleeding is necessary in contusion) than in other cases. Bleeding on the affected side is preferable to the other. The pulse will require bleeding even after an abscess is formed or broken for which when properly managed it may be considered as a cure.

* Pregnant women require more bleeding than those in a different situation - Purges are im-
proper ^{or to the sides}

X Between the shoulders or on the legs & wrists -

Blisters if applied at a proper time suspend the cough often in one night - Recollect the unity of the skin & that diseases of the bowels are often cured by blisters to the extremities

© The Cough is sometimes constant lasting 25 days without intermission -

© Horse Radish tea & Oxy-mel of Squills & Ba-
coniel are 2 good expectorants. - It ends in
Hydrothorax & Conica &c

The 1st 2^d & 3^d bleeding will seldom be sore but generally after this it will show itself to be sore. 2^d Laxative medicines, there are especially necessary when the disease is accompanied with bile, Calomel neutral salts & Antimony. Blisters to the sides, breast & ^{sup} ~~or between the~~ ^{between the} shoulders after the 2^d or 3^d day, or cuppings are proper if the system be previously reduced. The blisters ⁺ may be applied in violent cases before the system is reduced to the blistering point as the stimulating effects to the whole system is counterbalanced by the depletion it creates. # Diluting drinks with Seneka & Antimonial pills are proper, also opium in small quantities at first after the system is reduced; as soon as the cough comes on give demulcent drinks such as flaxseed tea, bran tea, barley water, fig tea, apple water &c. Are expectorants proper? No provided V.f. has been sufficiently used; but when the Arterial system comes to sympathize with the lungs also when V.f. is not performed in due time & obstructions have taken place then may expectorants be used. Emetics are proper when there is much phlegm. they have snatched many persons from the grave, cupping between the shoulders,

* Little blood coming from the Lungs is unfavourable - a Diarrhoea is unfavourable - Dissolved blood on the 5th day is alarming on the 2nd not so much so. When the Pain is on the left side it is ^{more} dangerous but of a shorter duration. When the pain passes to the arm or back it is favourable but when it descends unfavourable. —

The Tracheal & Bronchial vessels are so engorged with blood that they cannot put on inflammatory action.

o No cough whatever - respiration very difficult

* & weakly constitution

16 Even when expectorants have been used V.J. would be proper to facilitate the discharge of the matter, or as Dr Sydenham expresses himself "to draw the cough off by the veins". The proper expectorants are Squills, gum ammoniac & volatile salts. ^{See next page 410} When delirium occurs about the 5th day it is always an alarming symptom*. The tinct: of Canthar: with Camphor so as to induce stranguary has been given in the last stage of the disease with efficacy. —

Pneumonia Notha. This is known by an increase of previous debility. It occurs in Springs after sickly autumns, & generally in ^{children &} old people. † The Lungs are suffocated or engorged & I have called this engorgement an Apoplexy of the lungs, The pulse is soft weak & regular ‡ The *Pneumonia notha* & vera are sometimes blended together in this case the pulse is tense. — It is common 1st To old debilitated people 2^o To drunkards 3^o It is more common in the spring, & in moist than dry climates & in South than North 4th It comes on more frequently in the night 5 It attacks & fixes in one posture. I knew a Gentleman in this City (The Rev^d H Helmuth) to be taken as he

* There are some constitutions w^h forbid V^f.
here Blister Other Vol. alkali & Laud. sh^d be
it used. Dr Dalzelle tells us that the Negroes in
the W Indies would not bear V^f.

was sitting upon his sofa in a leaning posture upon the
 palms of his hands & elbows, from which situation he
 could not raise himself to "Without a Cough & Sweats
 on the breast & head. & Sometimes kills in a few hours like
 apoplexy of the brain (it is the Apoplexy of the Lungs) and
 sometimes not for days. I once attended a Gentleman in
 the third attack of this disease who died in 2 Hours after
 the attack, he died in a few months after V.J. Dr Gallz-
 elle says he never knew it among the Negroes of the West
 Indies ~~their lungs are too weak to react to the state of in-~~
~~flammation~~ 9th It is a symptom of Gout, Pulmonary Con-
 sumption Yellow Fever & Influenza. Its care consists in
 copious & prompt V.J. 20 or 30 oz should be taken at a
 time from that to 100. In some cases the first V.J. is
 sufficient. But here the pulse should be our guide. * After
 V.J. blisters to the side, breast; & sometimes Vol: Alkali-
 The blisters just mentioned should be applied to the shoul-
 ders, thighs & arms at the same time, & assisted by sin-
 nisms in great depression. Laudanum should be giv-
 en in large doses after V.J. Vapours of hot water or
 the smoke of resin received into the Lungs, they rouse

* Colic & Diarrhoea

the lungs from their torpor & prevent a second congestion taking place in them. hot water to the extremities, water poured on hot iron where the warm water is not readily procured & the vapour inhaled. — I once had a patient with a violent attack of this disease. his respiration was very difficult, having no hot water or time to wait I immediately poured water on hot iron under his mouth & suffered him to respire it. in a few minutes I asked him how he felt? his reply was that he was a million of times better. We are not always to expect however that these diseases are easily distinguished from each other, for they are often blended.

Bilious Pneumony. In this there are two morbid actions, one in the lungs & bloodvessels & the other in the alimentary Canal. It is known by a redness of the eyes, sickness vomiting, black tongue, a low pulse &c. 2 By prevailing in epidemics of a bilious kind. 3 By prevailing late in autumn & in the spring months after the prevalence of bilious fevers. There are two forms of this disease. the first with a synocha pulse & the 2^d with a typhus or typhoid do. The remedies for the first are copious & frequent

* twice as much B. Blephora took 40 or 50 oz in 24 hours

It often begins with a Synocha & ends with a Typhus Pulse & ~~Acce~~ Tertia. Treacherous remissions or more properly prostrate Paroxysms occur in this form of Pneumonia —

The Synochus & Typhus states in this form of Pneumonia are often so mixed & blended that the indications of cure are with difficulty discovered — a mixed treatment partly stimulating & partly depleting are sometimes to be pursued. —

V. J. much more so than in Pneumonia, ^{Motha} there being two actions to subdue instead of one. 2^o After V. J. the daily exhibition of purges with calomel which should be aided by glysters. 3^o Vomits if the stomach be affected with nausea from bile. 4^o Blisters & ~~the~~ ^{for} For the second ⁱⁿ which the system is prostrated below the point of reaction, & a great difficulty of breathing. Quick breath & weakness sweating & now & then a soap bubble tension in the pulse occur. The remedies are 1^o Emetics - for free V. J. cannot be used with advantage. 2^o Gentle purges or glysters, cupping, after which stimulants as wine, bark, laudanum, Vol. Salts, snake root &c should be used. I led a Student once by the name of Craig for this disease in consequence of which he was evidently worse. I then used Cordials & cured him. I had another patient whom I injured by V. J. altho his pulse was active I then used the bark, laudanum &c successfully.

It is nearly allied to Influenza

Catarh. This arises from Cold & ~~It~~ ^{is} an atmospheric disease & derived from the sensible qualities of the air; sudden changes from heat to cold & vice versa

* Hence it is rare in Holland -

* It is generally thrown upon the boulevards in
~~Antwerp~~ & lumps in winter - When upon
the latter in summer it is far more dan-
gerous

from the operation of these vicissitudes it is most frequent in Great Britain & the United States; it is hardly known in Russia. or Canada —

2^o It is induced from the application of cold to one part of the body,

3^o By cold applied where there is sweat. —

4^o Cold when long applied tho' not intense

5^o When applied when the body is debilitated. All these causes are attended with obstructed perspiration. —

|| 2^o It is induced by the excreted matter which induces Jail Fever

3^o The smell of old Books

4^o The application of land & sea air combined

5^o It is induced by fear distress & vexation. — Cold when ^{intemperance, fatigue} uniform tho' combined with moisture will not produce it.

This is a singular fact. * Many of the Catarrhs of our country are brought on by sitting in rooms much heated with a current of cold air passing thro' them. After it is formed it is occasionally contagious. It affects the Schneiderian membrane, bronchio & pulmonary arteries. When it affects the first it causes sneezing when the bronchio coughing, & when the pulmonary arteries abscesses. * It is most dangerous & obstinate in the summer. Children

It rarely affects children and
adults at the same time.

~~Surgeons are indicated~~

as well as adults are affected by Catarrhs - the former in consequence of a more copious effusion in the vital parts & being less able to bear them, often fall victims to it.

Influenza This is often the precursor of γ Fever & often succeeds it. It affects brutes also savages, in which it differs from Catarrh from Cold which never affects the last. The remedies for Catarrh & Influenza divide themselves into two kinds, namely. 1st Those for the forming state & 2nd Those for the state when formed. The remedies for the forming state are Pediluvium, Abstinence, Apple water, wine whey, vinegar & molasses diluting drinks. Mr Garlick used to eat a salt herring for this disease, this caused him to drink a great quantity of water which cured him in 24 hours. When the disease is formed the remedies are γ .F. according to the state of the pulse from one to ^{times} 20 ~~or~~ if necessary. There are cases where not only a tense but a soft pulse calls loudly for the lancet. The bleeding not only cures the disease but prevents pulmonary Consumption. A Catarrh from Cold should never be neglected 2nd Purge when there is

+ It is nothing but a Pneumonia in the Class-
sic form

* Such as from wounds, Mal ^{form} Conformation Ca-
tarrh Pneumony Measles Asthma

Such as fevers of all Kinds Gout Venereal
disease

an excess of bile, 3^d Emetics 4th Demulcent drinks & lastly
Opiates &c. These diseases as being one of the causes of
Pulmonary Consumption should not be neglected, they
often prove fatal to old people & those of debilitated habits.
What worse would we have than a Cold, for death is no-
thing more than a very great cold. In order to prevent
these diseases flannel should be worn next the skin & the
Head feet & neck should be kept warm. Cold baths ex-
ercise & are good; or rather labour in the open air

Pulmonary Consumption or Pneumonicula. —

I shall here briefly sum up all I have to say on Pneu-
monicula in a very few words. The remote causes of
this disease act 1st Primarily on the Lungs; 2^d Secon-
darily, & 3^d Sympathetically as diseases of other parts of
the body, as, the Lungs Uterus Liver &c

It is nothing more than a protracted or chronic Pneu-
mony as other chronic diseases. — It is first, always
preceded by debility. 2^d This debility prevades the whole
system, this is proved from all the causes which induce

* from Cough Pain Watchfulness & ex-
pectorative

A cough must bring on general debility
before it induces consumption, not
from any violence done to the lungs -

it (refer to my Inquiries). When the lungs are affected it is only in consequence of general debility*. This I infer from 1st The lungs being a hardy viscus not producing consumption when even perforated by a ball - or other local injuries 2^d Those subject to the consumption are of a debilitated habit or sedentary ^{lives} 3^d I infer debility from the symptoms appearing first in the whole system, such as wakefulness, head ache, diarrhoea, cold feet, weak appetite burning in the hands &c these symptoms sometimes continue years without a cough. 4th From its alternating with diseases of the whole system, as Rheumatism, Mania, Head ache &c which are diseases of the system. This disease exists in the bloodvessels, the effects of it are 1st It excites cough 2^d Hemoptysis without cough; this last is a favourable symptom in the early stage, the blood is discharged without a tubercle which shews a general disease. The lungs are affected in consequence of fever, this fever produces an abscess (if there is no discharge) in the bloodvessels, in the bronchia & forms tubercles. — There are a few cases in which hydatids & even small calculi are formed, sometimes there is no tubercle formed &

only a defluxion. Why do the bloodvessels empty themselves into the lungs? Because of the laxity of their texture disposing them to receive morbid action. Their continued exposure to cold & their being kept in a state of predisposed debility by talking &c. Sometimes the fever falls upon the trachea producing ^{ulcer - or even altho' an} haemorrhagic catarrh also &c. in this case I call it tracheal consumption which is known by a constant cough & black coloured expectoration. The cough is much more constant & the defluxion of mucus black. Some persons sometimes have this defluxion for 20, 30, 40, 50, & even 60 years without falling into consumption. - Here the debility is partial & consumption cannot be produced without general debility. This I consider as a true theory. It is not only in consumption that the effects have been mistaken for the cause, but in other diseases - we do not now ascribe the water in the head to Hydrocephalus. Water in the brain & membrane in the trachea have been erroneously supposed to be the causes of Hydrocephalus & Cynanche Trachealis. It is high time Gentlemen to harness the Horses before the Chariot of Medicine instead of behind it; it is time to ascribe effects

* I have seen a follow Perlupis

I follow Perlupis —

It is a follow Perlupis —

to causes & not causes to effects. The earth in our science has stood still sufficiently long. & The Pulmonary consumption has sometimes assumed an intermediate form between it and the Pneumonia; in this case it sometimes kills in 6 weeks & is called a Galloping Consumption, but it more frequently continues 9, 12 & 18 Months. I had it frequently between the 18th & 40th years of my age. It generally attacks under the age of 36 from that to 40 & 45 & rarely at 60* children are not subject to it.* Black eyed & red haired people are more subject to it also such as have intemperate habits & vici-
 bratile bloodvessels. The predisposition to consumption is hereditary but often a family disease & often exists in whole families even where no hereditary predisposition exists. Dr Craig has lost 5 children in this way & himself & wife are exempt. In the town of Salem $\frac{1}{3}$ of all that died in 12 Months died of Consumption. From $\frac{1}{2}$ to $\frac{3}{4}$ of all who die in G. Britain die of this disease. Those who have had the intermittent fever are more predisposed to it than others. Moist & variable climates & Countries predispose to it especially near the

* Inflammatory Rheetic & Typhus states is
M^d be

Hoarseness Cough - Flushings or Paleness in
the face Burning sensation in the Palms of
the hands - The Tongue is always Moist

sea shore where many more of the inhabitants die. The Month of March in our Climate is more fatal to consumptive patients from the variable temperature generally prevalent at that time. Diseases near the sea shore or in moist climates require the lancet much more than those in inland or dry countries. Moisture alone is not sufficient to induce this disease - This I infer from its being scarcely known in Holland & Cold or very hot climates never produce it but they are unfavourable to it when formed. Few have recovered who have went from Philadelphia to the West Indies in this disease. Dr Blane says a temperature from 30 to 40 is best for consumptive patients. Authors divide it into first second & third stages. I have seen it in all its states even until it preceded death.

1st Without a Chill - 2^d Without a Chill fever or Night sweats, 3rd Without Cough, I have seen two fatal cases of this - the one complained of a pain in his side and inability to speak from pain only, & the other in the head. It seems unnecessary to produce fever that the air should have access to the lungs. # Pulmonary

* 2^o Lymphatic concretions as in the Trachea
in Cynanche Trachealis

3^o Tubercles formed suddenly as in other
parts of the body

4^o One or more superficial ulcers - These are *

5^o Pus in the cavity of the Thorax

Stomach Heart & Arteries

* always more dangerous than abscesses, as they
are apt to become cancerous

Consumption has been said to be contagious from sleeping &c with persons affected with it. It is believed to be so in Portugal & Spain where the bed & clothes &c of the persons who die with it are burnt. It may be and is from inhaling the breath of those who have it, from being exposed to their sweats & from sleeping with them - & also from excretions.

The following appearances shew themselves on dissection -

1st No appearance of disease at all from the effusions of the Bronchio being discharged in Mucus &c.

2^d Water in the ^{Thorax &} Lungs - 3 Abscesses & Chalky concretions & silicious & gravelly &c. 4 Ossifications of the arteries of the Lungs - 5 Certain substances inhaled

have been found there after death. 6th protumatural increase of the size & weight, lightness, hardness & lastly but one lobe has

been found, besides these appearances the liver ^{&c} &c

have been found diseased. A Cough often continues for years with spitting of Blood; where no Fever is, it does not kill.

The remedies for it are of two kinds, namely, 1st Those for the forming state & 2^d Those for the disease when formed. The symptoms

* No regard is to be paid to the apparent weakness of the Patient - women who suckle children sh^d stop directly -

• The tongue is always moist -

in the forming state are of 2 Kinds - Burning hands & feet, frequent discharge of pale urine.

Hoarseness, Cough, flushings or paleness in the skin & sense of weakness in the heart, a weak frequent & sometimes tense pulse - other premonitory symptoms are, a sense of fulness in the breast ^{with a synocha or synochula pulse}, difficulty of breathing transient pain in the breast &c. I have seen these causes sometimes continue for months without inducing it. - For

the forming state the remedies are 1st V. S. if the pulse be active or the debility is generally of the indirect kind. 2^d Tonics such as Bark Steel, Wine, & with tonic diet & salt meat 3^d Exercise: such as riding on horseback, carriage &c. 4th Cold Bath. 5th avoiding all exciting causes. By observing the pre-

monitory symptoms I have prevented many hundred consumptions. When formed it is attended with synocha, synochoid & sometimes, ^{Hectic &} typhus pulse. The remedies here are such

as are suited to the state of the system, changes of the pulse &c.

I have known the pulse to run thro' all its different states in a short time in this disease. I have known an active pulse

& sizy blood even until just before death. If it be synocha or synochula

V. S. is necessary, it should be small & frequent, it has been performed 150 times with success.

* Recollect the Sympathy between the Stomach & the Trachea a spitting of blood does not forbid the use of Emetics -

Salivation acts by a revulsive power & by destroying obstructions particularly in the Glands

© Milk

Dr. Griffiths bled a young Lady in this City as often as
 the above it was taken in a small quantity at a time and
 repeatedly. 2^o A Vegetable diet with salted meat or fish;
 Milk is generally improper in this stage unless diluted &
 not more than a pint of liquid diet should be taken daily
 in this ^{state of the} disease. 3^o Nitre every day this acts by transferring
 action from the blood vessels to the bowels. 4^o Blisters to the
 sides & wrists, I would however prefer them to the back; if
 to the arms they should be high up on the joints, especially if
 it arises from secondary causes as from Gout & Rheumatism.
 5^o Emetics after the system is reduced; these are more partic-
 ularly useful when it proceeds from ^a cold & 6^h A salivation;
 The predisposing debility which is not removed by this, should
 be obviated by tonics. Salivation is our only & most radical
 cure. 9 out of 10 who were salivated in recent cases recover-
 ed. This remedy in this stage is generally a radical one. In
 spitting of blood it should not be forbidden but should ra-
 ther be thought as a symptom arguing its exhibition. In
 the second stage 2 in 3 & in the 3^d & last stage 1 in 10 who
 were salivated were radically cured. Blisters & mercury
 with an antimonial powder are frequently used. It is

* Remember they are not to be given till the
very last stage —

to be regretted that mercury fails so often in producing a salivation, it fails oftener than it succeeds. In the hectic state salivation ^{& Caloric} promises more good than in the Typhus state. But it promises still more good in the Typhoid state of the pulse. ^{is the best} In the Typhus state, Opium, sometimes cures, perhaps when it does this, it acts by its revulsive action on the brain. Mania being induced has cured it - garlic, tar pills, tar in different forms, tobacco, cordial drinks, the most nourishing diet & cordial & animal food &c. I will remark here that 1st These cordials should be used only in the Typhus & consequently in the last stage of this disease. 2nd Only when they render the pulse fuller & slower 3rd Should be taken all day & night 4th That animal food is preferable to the Bark.

When the acute forms are reduced, travelling swinging riding on horse back, rowing &c are proper. In travelling regard must be had to the vehicle beginning with a carriage & then on horse back. & also the climate & country; the sea shore should be avoided. Spas (as curing the consumption;) these may frequently do good but I have known only one case completely cured by them; I prefer the perpetual blisters to them. Digitalis - this is said to lower the

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

pulse & consequently to increase absorption; I must however observe here that I have only seen one instance in which this was of service. I believe that more good may be done by it in the South than in Pennsylvania & its effects are somewhat similar to Opium; it is given in tense pulse, in this case its operation is slow & consequently V. G. being of a more powerful nature is vastly preferable - 2^o eating plentifully of sweet grapes has cured consumption. I once saw a cure from Malaga grapes. 3^o Large draughts of the juice of the sugar tree & sweet apples, or the tea of them.

4^o 5^o Fumigations by burning resinous substances, burning narcotic substances such as henbane, hemlock &c & receiving the fumes into the Lungs have been said to be of service 5^o 6^o Reduced air. Dr Priestly's daughter was cured of a consumption by breathing the air of the same room in which a cow lived. Dr Beddoes says this was not from reduced air but from the equal temperature kept up by the Cow 6^o 7^o Frictions have been used they are more useful when combined with some stimulating substance; The sympathy between the lungs & skin is of an inverse nature, consequently clothing should be warm & particularly to the extremities.

Contents

Pathology	1
Predisposition	6
Disorders	13
Forms of disease	23
Effects of disease	29
Seats of diseases	35
Signs of Disease	37
Pain	39
Pulse	41
Remote Causes of disease	73
Atmosphere	75
Heat	
Cold	76
Marsh Miasmata	89
Human Effluvia	92
Situation of health	99
Sun & Moon	87 +
Contagious diseases	91 +
Aliments & Drinks	105
Condiments	117
Drinks	123
Drugs	127
Poisons	131
Foreign Matters introduced	137
Worms &	
Anomalous or extraneous bodies introduced	139
Retained excretions	141
Rest & Motion, Sleep & Watchfulness	145
Diseases of intellectual faculties & Gen. Appetite	147
Passions	"

Different Govern ^{ts} Religions, Employment ^s	155
Different Amusem ^{ts} Peculiar Customs	157
Diseases fr ^m unhealthy Ancestors	159
fr ^m the improper use of Medicine	161
fr ^m the impudent or Habitual use of Med:	163
Sympathy & Antipathy	167
Diseases fr ^m Accidents — & From Old age	171
Predisposing Causes of Disease	171

Therapeutics

Diseases w ^h sh ^d not be cured	183
Sedatives	187
Cathartics	181 +
Emetics	187 +
Diaphoretics	189 +
Diuretics	193 +
Dialagogues	197 +
Emetics	199 +
Expectorants	185 + +
Emmenagogues	183 + +
Blisters	185 + +
Issues	Id
Stimulants	187 + +
Medicines w ^h remove Morbid action in a part by exciting it in another	189 + +
Medicines w ^h prevent Disease by removing debility	197 + +
Medicines w ^h remove debility	201
Med: w ^h remove diseases by abstracting foreign & Redundant Matters	211
	217

Medicines w ^h remove diseases by mixing with & thus destroying matters w ^h offend	Page 217
Medicines w ^h remove obstructions	"
Medicines w ^h change the quality of the fluids or texture of the Solids	219
Medicines for relieving Pain	"

Practice of Medicine ————— 231

Diseases as they appear chiefly in the bloodvessels & certain viscera	243
Diseases w ^h affect the Arterial System with none or but little local affection	245
Malignant state of fever	"
Gangrenous, Synochus Fortis, & Synocha	247
Synocula, Synochus Mitis, Synochoid Ty- phoid, Typhus & Ecthic	249
Intermitting Remitting & Febricula	251
Remedies for the 13 primary forms of fever	259
Primary forms of fever w ^h require Stimulants	287
of Convalescence	319
Intermittents	327
Ecthic	343
Febricula	349
Critical days	349
Prognosis of fever	355
Signs of life & death	357
as they regard the Mind	369

Of the six forms of Fever more strongly dependant	Page
upon the Arterial System than any others —	371
I also is on the Elementary Canal	
Bilious States of Fever — Mild Bilious	373
Plague	379
Jail Fever	380
Fever induced by Opium	381
— Rabid Animals	383
Fever produced by Poisons	383
Sweating State of Fever	387
Fainting State	"
Burning State	"
Cold & Chilly State — The Petechial	389
Intestinal States of Fever — Diarrhoea	389
Dysentery	391
inflammatory	397
Cholera Morbus	405
Bilious Colic	
Pneumonia Vera	407
— Notha	413
Bilious Pneumony	417
Catarrh X	419
Pulmonary Consumpt ⁿ or Pneumonicula	425
✓ Influenza	423

COLLEGE OF PHOENIX
TO
PHILADELPHIA

